

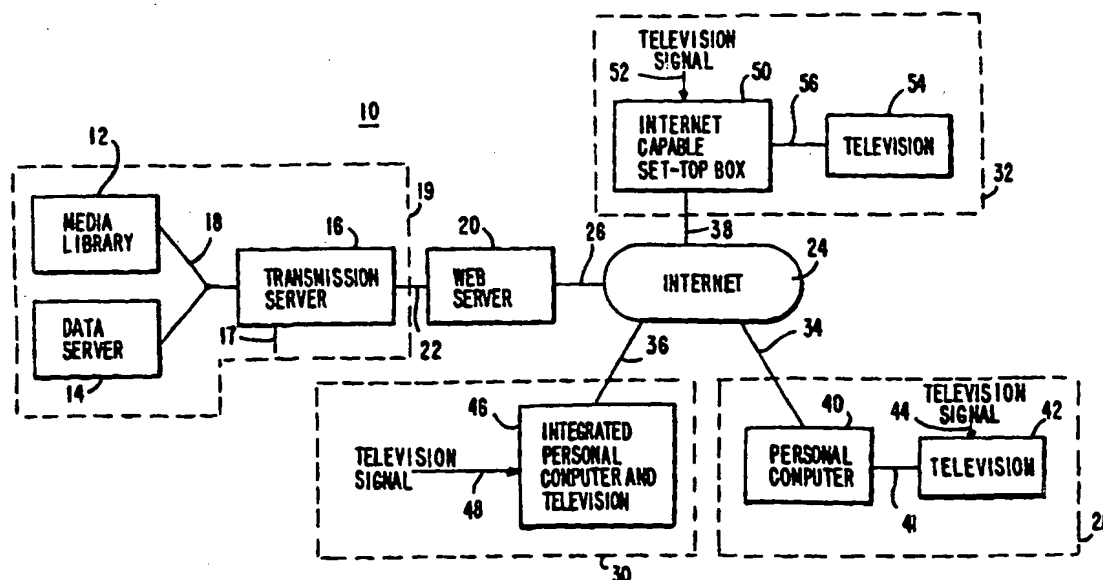


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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>H04N 5/445</b>		A1		(11) International Publication Number: <b>WO 98/26584</b>	
				(43) International Publication Date: <b>18 June 1998 (18.06.98)</b>	
(21) International Application Number: <b>PCT/US97/22753</b>			(81) Designated States: <b>AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</b>		
(22) International Filing Date: <b>9 December 1997 (09.12.97)</b>					
(30) Priority Data: 60/032,539 10 December 1996 (10.12.96) US 08/938,028 18 September 1997 (18.09.97) US					
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(54) Title: INTERNET TELEVISION PROGRAM GUIDE SYSTEM



**(57) Abstract**

An Internet television program guide system is provided that allows a user at a multimedia system to access information related to television programs over an Internet communications link. The user can view television program guide listings and related video stills and video clips. The user can perform database searches on the program guide listings (e.g., to search for a particular type of television program). If desired, the user can select an option that directs the multimedia system to tune directly to a television channel for a selected program or to a related television program guide or movie guide service on a television channel. The user can order pay-per-view events using the system.

## INTERNET TELEVISION PROGRAM GUIDE SYSTEM

Background of the Invention

This invention relates to the Internet, and more particularly, to techniques for providing television program guide information and services to a user over the Internet.

A large number of television channels are available over cable television systems and satellite television systems. Television viewers have traditionally had to consult preprinted television program listings to determine which programs were scheduled to be broadcast on a particular day. More recently, television-based program guides have been developed that allow television viewers to view television program listings directly on their television sets.

For example, the Prevue® channel is a scrolling television program listings service that a cable system operator may make available to subscribers over a dedicated cable channel. Viewers can tune to the appropriate television channel to view program listings for television programs that are currently being broadcast and are scheduled to be broadcast in

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It is therefore an object of the present invention to provide a television program guide system that provides television program listings from a server to a user's multimedia system over an Internet communications link.

It is a further object of the present invention to provide a television program guide system that allows users to click on text or still images to view promotional video clips, audio clips, interview segments, and other multimedia material related to a given television program.

#### Summary of the Invention

These and other objects of the invention are accomplished in accordance with the principles of the present invention by providing an Internet television program guide system. A computer system having a media library and a data server is used to provide multimedia clips and related television program guide data. The multimedia material and program guide data are provided to a web server. The web server provides this information to the user's multimedia system via an Internet communications link.

The multimedia system has a processing unit for receiving information from the Internet communications link and processing such information accordingly. The multimedia system also has a video unit for receiving television signals. In a first embodiment, the processing unit is based on a personal computer running a standard web browser with plug-ins. The video unit is based on a television. In a second embodiment, the processing unit and video unit of the

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location), the system benefits from using the established protocols and standards of the Internet.

In addition, because the Internet television program guide is provided as a web site having a number of linked web pages, features can be easily added or deleted from the service by the service provider, without directly affecting the hardware and software of the user.

Using a web site platform also allows a wide range of service options to be provided. In particular, numerous media formats (animation, full motion video, sound, still images, and text) are supported and may be interconnected using various embedded hypertext transfer protocol links.

Further features of the invention, its nature and various advantages will be more apparent from the accompanying drawings and the following detailed description of the preferred embodiments.

## Brief Description of the Drawings

FIG. 1 is a system diagram showing a media library and data server interconnected with a web server and various multimedia systems.

FIG. 2 is a generalized diagram of a user's multimedia system.

FIG. 3 is a system diagram similar to that of FIG. 1 showing an arrangement in which the web server is located in a cable system headend.

FIG. 4 is a diagram of a home page for an Internet television program guide.

FIG. 5 is a diagram of a map-based menu for identifying a geographical area of interest.

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FIG. 20 is a web page containing television program guide listings organized by category.

FIG. 21 is a search page containing a box for entering search text and various search field options.

5       FIG. 22 is a television program guide listing page based on the results of a search.

FIG. 23. is a web page presenting program guide options related to promotional clips, interview segments, and pay-per-view and premium services.

10       FIG. 24 is a web page presenting various image stills that may be selected by the user when it is desired to view related video clips. -

FIG. 25 is a web page presenting user options regarding pay-per-view and premium services.

15       FIG. 26 is a web page containing television program listings for a selected pay-per-view channel.

FIG. 27 is a web page containing television program listings for a selected premium channel.

20       FIG. 28 is a web page providing information regarding upcoming pay-per-view sporting and special events.

FIG. 29 is a web page containing still images corresponding to available interview segments.

25       FIG. 30 is a program information web page containing information on a program selected by the user and presenting related options.

FIG. 31 is a web page that allows a user to enter information for ordering a pay-per-view event.

30       FIG. 32 is a web page that provides a showcase for advertisers.

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desired. The television program information in data server 14 is primarily in non-video formats.

Media library 12 and data server 14 are interconnected with transmission server 16 via internal network 18. Media library 12, data server 14, network 18, and transmission server 16 make up computer system 19. Television program information may be stored on data server 14 in a relational database format and may be stored on transmission server 16 in an object-oriented database format. A building process implemented in the C++ programming language can be used to periodically (e.g., once a day) build a temporary data set of television program information (e.g., a seven-day to one-month data set) for storage on transmission server 16. Transmission server 16 also receives information for the Internet television program guide service such as weather data, sports scores, etc., via data input 17.

Television program information and related data may be transferred from transmission server 16 to web server 20 via communications line 22. Communications line 22 may be part of an internal network or may be a standard dedicated communications line. Web server 20 can be connected to the Internet 24 via communications link 26. Communications link 26 is preferably a telephone line or other suitable Internet communications path.

If transmission server 16 and web server 20 are separate devices, as shown in FIG. 1, transmission server 16 can be used as a common data processing facility for other applications which use the type of television program data stored on transmission server

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Gateway 2000 Inc. of North Sioux City, South Dakota. Television signals are provided at input 48. Internet access is provided via Internet communications link 36.

5 Multimedia system 32 has an Internet capable set-top box 50. Set-top box 50 may use the TV OnLine® set-top box application software of World Gate Corporation, which may be implemented on set-top boxes such as the CFT-2200® of General Instrument Corporation of Hatboro, Pennsylvania and the 8600x® of Scientific  
10 Atlanta of Atlanta, Georgia. Set-top box 50 receives television signals via input 52. Internet access is provided via Internet communications link 38. Video display signals containing television and Internet information are provided to television 54 by line 56.

15 During operation of system 10, certain data processing functions, such as user-initiated searches and sorts, are typically performed on web server 20. If desired, such functions can be performed on a suitable data processing component in multimedia  
20 systems 28, 30, and 32.

Certain television guide functions require only that multimedia systems 28, 30, and 32 contain web browsing capabilities. Other functions require television tuning and video recording capabilities.  
25 FIG. 2 shows a generalized multimedia system arrangement that is capable of supporting controlled television tuning and video recording, if desired. As shown in FIG. 2, multimedia system 58 has a processing unit 60, which preferably contains memory for storing  
30 instructions and a microprocessor for executing the instructions. Processing unit 60 accesses the Internet via Internet link 62. Video unit 64, which may be

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may be contained within both a television component and a videocassette recorder component in system 58).

Regardless of the specific configuration of the multimedia systems used in system 10, the user of  
5 such a multimedia system has the capability to access television program guide information on web server 20. Many of the features of the Internet program guide service are available using multimedia systems with the capabilities of a modern personal computer (desktop or  
10 laptop). If it is desired to use certain program guide features that rely upon controlling a tuner or recording unit, the multimedia system should also have the ability to tune to a desired television program from among the various television programs provided at  
15 inputs 44, 48, 52, and 74 and have the ability to record that program automatically, under the control of commands from processing unit 60. Additional features may also be implemented on multimedia system 58.

Another configuration that may be used for an  
20 Internet television program guide system is shown in FIG. 3. As shown in FIG. 3, Internet television program guide system has media library 80 and data server 82. Media library 80 contains television program clips, interviews, and reviews. The television  
25 program information stored in media library 80 is primarily video. Data server 82 contains databases of television program information. For example, data server 82 may have a database containing descriptions of videos in media library 80. Data server 82 may also  
30 have a databases containing information on program titles, pay-per-view events, and television program schedules. Data server 82 may have a cable system



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Television program information (including video clips and associated television program data) is transmitted from transmission server 84 to each cable system headend 88 via satellite uplink 90 and satellite downlink 92. Each web server 86 uses the Internet TCP/IP protocol to make the television program information available to users at multimedia systems 94, 96, and 98 via respective communications links 100, 102, and 104. Communications links 100, 102, and 104 are Internet links formed from telephone lines, radio-frequency (RF) links, cable modem links, satellite dish downlinks, combinations of links such as these, or any other suitable Internet connection paths. Although illustrated as direct links between multimedia systems 94, 96, and 98 and web server 86, communications links 100, 102, and 104 may be Internet paths that pass through extensive portions of the Internet.

Multimedia system 94 has personal computer 106 and may have television 108. Television 108 receives television signals from input 110. Access to web server 86 is provided via Internet communications link 100.

Multimedia system 96 has an integrated personal computer and television 112, such as the Gateway 2000 Destination PC-TV hybrid. Television signals are provided at input 114. Access to web server 86 is provided via Internet communications link 102.

Multimedia system 98 has an Internet capable set-top box 116, such as the TV OnLine® set-top box. Set-top box 116 receives television signals via input 118. Access to web server 86 is provided via Internet

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provided as web browser plug-ins (i.e., special software modules designed to enhance the features of a web browser application). A suitable video player plug-in for MOV files is the Quicktime® application of Apple Computer, Inc. of Cupertino, California. AVI and MPG (or MPEG -- Motion Picture Expert Group) files may be played using the ActiveMovie® application of Microsoft Corporation.

An illustrative welcome page 124 for the television program guide service of the present invention is shown in FIG. 4. (A site map is shown in FIG. 34.) Web browser function keys 126 help the user at multimedia system 58 to navigate through web pages of material such as welcome page 124. Users may also navigate by clicking on an image or an element of highlighted text with cursor 142, which may be controlled by a pointing device such as a mouse or trackball. Other arrangements for selecting links may be used if supported by the user interface 76 that is provided in multimedia system 58. Web browser function keys 126 include back and forward keys that allow the user to navigate backward and forward along a browsing trail. Web browser function keys 126 are not shown in the other FIGS., but are shown in FIG. 4 to illustrate the types of function keys that are available with a standard web browser.

Welcome page 124 may contain identifying logos 128 (which may be, for example, United States trademarks). Identifying logos 128 allow a user to quickly associate a service provider, such as the assignee of the present invention, Prevue Networks, Inc. of Tulsa, Oklahoma, with the Internet television

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If the user desires to select go local option 136, the user may be prompted to enter a zip code for the local area of interest in box 144. If service is available, the program guide system links the user to an appropriate the local system operator's web site based on the zip code information. If desired, the user can select a local area by entering information such as a cable system operator's name, the name of a city, international country and city information, etc.

10 Another way in which the user may select a local service area of interest is using a map-based graphical user interface. As shown in FIG. 5, the user is presented with United States map 146. The user selects a state of interest using cursor 142. If necessary,

15 additional maps containing greater levels of detail are provided, each allowing the user to make further geographical selections. Ultimately, the user is presented with a local map (e.g., a map that allows the user to select from several available cable system

20 operators). In map 148 of FIG. 6, the user can select between three available cable system operator regions: region 1, region 2, and region 3.

If no local service is available, the user may be provided with a web page such as no service page 150 of FIG. 7, in which the user is informed that local service is not presently available in the area selected by the user. No service page 150 may provide the user with an opportunity to submit the user's e-mail address, cable provider information, local zip code

30 information, and comments. Information provided by the user can be used by the operator of the television

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Upon completing registration page 162, the user is presented with local cable site page 170 of FIG. 10, which is customized to reflect the local geographic area or city selected by the user. Local  
5 cable site page 170 may contain a welcome message 172 that is customized to reflect the name of the local cable system operator.

A number of options 174 may be presented as hypertext links to associated web pages. An image 175  
10 is displayed that changes as the user places cursor 142 on top of each option 174. For example, the image 175 of FIG. 10 is presented when the user positions cursor 142 over program guide option 190. Different images are displayed as cursor 142 passes over each option  
15 174. The images 175 to be displayed are stored as bitmap images in processing unit 60 of multimedia system 58 (FIG. 2). This technique of presenting context-sensitive images to illustrate the current position of the cursor over hypertext link options is  
20 preferably used throughout the Internet television program guide service.

Various web pages may be displayed depending on which option 174 is selected by the user. For example, selecting community events option 176 presents  
25 the user with community events page 178 (FIG. 11), which contains information on local upcoming community events. If desired, the listed community events may be specific to the type of service to which the user subscribes (e.g., cable or satellite).

30 Selecting cable feedback option 180 presents the user with cable feedback page 182 (FIG. 12), which

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user with the opportunity to select additional cities for which weather information is desired.

Program guide option 190 allows the user to access television program listings that can be  
5 organized by time, channel, and category and can be searched. Selecting program guide option 190 takes the user to program guide menu page 194 (FIG. 15). Movie guide option 192 allows the user to access channel  
10 listings for premium and pay-per-view channels, interviews, and various promotional media. Selecting movie guide option 192 takes the user to movie guide menu page 196 (FIG. 23).

The user may reach program guide menu page 194 (FIG. 15) from go national option 138 (FIGS. 4 and  
15 8) or go satellite option 140 (FIGS. 4 and 8). If the user selected go local option 136 (FIG. 4) and successfully completed registration page 162 (FIG. 9), the user may reach program guide menu page 194 (FIG. 15) by selecting program guide option 190 on local  
20 cable site page 170 (FIG. 10). The user may also reach program guide menu page 194 (FIG. 15) via select a city option 154. Each of these paths to program guide menu page 194 requires that slightly different user selections be made.

25 Go local option 136 (FIG. 4) requires that a user specify a particular local region (or cable system operator) of interest to reach local cable site page 170 (FIG. 10). To reach program guide menu page 194 (FIG. 15) from local cable site page 170, the user  
30 selects program guide option 190.

Go national option 138 (FIGS. 4 and 8) requires that a user select a desired time zone (e.g.,

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Dividing program guide menu page 194 in this way allows system resources to be used more efficiently than would otherwise be possible, because the common material in top web page 198 can be used for more than one local  
5 cable system.

If desired, television channel options 206 and 208 may be provided that allow the user to easily access related television channel program services. When the user selects options 206 or 208, processing  
10 unit 60 (FIG. 2) sends control commands to video unit 68 that direct tuner 70 of video unit 64 to tune to a television channel on which the desired program service is being broadcast.

For example, if the user wishes to tune video  
15 unit 64 to the Prevue® channel, the user may click on program guide television channel option 206. When program guide television channel option 206 is selected, processing unit 60 directs video unit 64 to select the appropriate television signal from  
20 television signal input 74 so that the Prevue® channel is displayed on monitor 72. The Prevue® channel is an example of a type of program guide service that displays a scrolling list of television program titles with a concurrent display of promotional videos and  
25 advertisements.

If the user wishes to tune video unit 64 to the Sneak Prevue® channel, the user may click on movie guide television channel option 208. When movie guide television channel option 208 is selected, processing  
30 unit 60 directs video unit 64 to select the appropriate television signal from television signal input 74 so that the Sneak Prevue® channel is displayed on monitor

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afternoon, or prime time). If desired, the closest time slot to the current time may be displayed. Program listings 220 typically contain information for about two hours of programming.

5                   Cursors 222 and 224 are used to navigate to earlier or later time periods, respectively. Web browser cursors 226 and 228 allow the user to scroll through the program listings. The user may also navigate the program listings with time navigation  
10 buttons 230. For example, if the user would like to view program listings that begin in the morning, the user clicks on the morning navigation button 230. If the user would like to view program listings for programs currently being broadcast, the user may click  
15 on the current navigation button 230. Program listings for different days in the month may be viewed by selecting the appropriate day from calendar buttons 232.

                  The user can chose between various available  
20 view options by selecting the appropriate time, channel, category, or search button from among view buttons 234. View buttons 234 take the user to the same web pages that are presented when the corresponding options 202 of FIG. 15 are selected. For  
25 example, by channel option 212 and channel view button 234 are both linked to by channel page 242 (FIG. 17).

                  Another component of by time page 218 and various other web pages provided by the present system is program information box 236. The contents of  
30 program information box 236 changes dynamically, depending on which program title in program listings 220 is selected. For example, the user has clicked on

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may be arranged in channel number order and may contain associated icons 246 for certain channels. A user can click on each individual channel 248 in channel list 244 to obtain a list of program information based on the selected channel. A user can also click on a graphic or text link to a listed network's web site to be hyperlinked to that site.

When a channel 248 is selected, the user is presented with channel program list page 250, as shown in FIG. 18. The selected channel in the example of FIG. 18 is channel 2. In channel program list page 250, program listings 252 for the selected channel may be arranged in time order, beginning with the current time. If programs in program listings 252 extend into the next day, the programs may be separated by date separation bar 254. Title bar 256 contains information identifying the currently selected channel.

By category page 258 of FIG. 19 is presented when the user selects by category option 214 from program guide menu page 194 (FIG. 15) or when the user clicks on a category view button, such as category view button 234 of by time page 218 (FIG. 16). By category page 258 contains category list 260, which may be presented in the form of category icons 262. A user can click an individual category icon 262 in category list 260 to obtain a list of program information based on the selected category.

When a category is selected, the user is presented with category program list page 264, as shown in FIG. 20. In category program list page 264, program listings 266 may be arranged in time and channel order, beginning with the current time and date. Program



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The user may reach movie guide menu page 196 (FIG. 23) from go national option 138 (FIGS. 4 and 8) or go satellite option 140 (FIGS. 4 and 8). If the user selects go local option 136 (FIG. 4) and  
5 successfully completes registration page 162 (FIG. 9), the user may reach movie guide menu page 196 (FIG. 23) by selecting movie guide option 192 on local cable site page 170 (FIG. 10). Each of these paths to movie guide menu page 196 requires that slightly different user  
10 selections be made.

Go local option 136 (FIG. 4) requires that a user specify a particular local region (or cable system operator) of interest to reach local cable site page 170 (FIG. 10). To reach movie guide menu page 196  
15 (FIG. 23) from local cable site page 170, the user selects movie guide option 192.

Go national option 138 (FIGS. 4 and 8) requires that a user select a desired time zone (e.g., eastern, central, mountain, or pacific). To reach  
20 movie guide menu page 196 from welcome page 124 (FIG. 4) or pick again page 152 (FIG. 8), the user selects movie guide option 290.

Go satellite option 140 (FIGS. 4 and 8) requires that the user select a desired satellite  
25 provider 286. To reach movie guide menu page 196 from welcome page 124 (FIG. 4) or pick again page 152 (FIG. 8), the user selects movie guide option 292.

Regardless of which option is used to reach movie guide menu page 196, information is preferably  
30 retained by the system 10 or 78 that indicates which selections have been made by the user. Retaining this information allows subsequently displayed program

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user clicks on pay-per-view link 312 or pay-per-view link 314, the user is taken to pay-per view page 316 (FIG. 26), which provides the user with pay-per-view program listings for the selected program.

5           When the user selects movie cruiser option 296, the user is presented with movie cruiser page 318, as shown in FIG. 25. Movie cruiser page 318 lists the pay-per-view and premium channels that are available to the user (based on previous selections). In  
10 particular, movie cruiser page 318 contains pay-per-view channel options 320 and premium channel options 322.

          If the user selects one of pay-per-view options 320, the user is taken to pay-per-view page  
15 316, as shown in FIG. 26. Pay-per-view page 316 contains program listings 324 for pay-per-view events. Multiple pay-per-view programs may be simultaneously listed in a grid format or may be listed as shown in FIG. 26 for a selected pay-per-view channel (i.e.,  
20 channel 35). As with several other pages, page 316 contains program information box 325, which contains program information when a program from program listings 324 has been selected by the user. Clicking on box 325 (or a closer look icon in box 325) takes the  
25 user to program information page 240 (FIG. 30).

          If the user selects one of premium channel options 322 on page 318 (FIG. 25), the user is taken to premium services page 326, as shown in FIG. 27. Premium services page 326 contains program listings 328  
30 for premium events. Multiple premium service programs may be simultaneously listed in a grid format or a single program may be listed as shown in FIG. 27 for a

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movies and other programs currently available to the user. The determination of which interview images 340 are to be made available on interview page 338 may be based on a calculation of the most frequently scheduled  
5 upcoming programs in a predetermined time period (e.g., in the upcoming week). If desired, interviews corresponding to programs not currently available to the user may also be provided. The user may select a given interview by clicking on one of images 340. The  
10 user is then taken to program information page 240 (FIG. 30).

As shown in FIG. 30, program information page 240 contains detailed information on a selected program (e.g., the movie Birdcage). Program information page  
15 240 preferably contains image 342, which may initially be presented as a still image of the program title (e.g., from a JPEG or GIF file). When a user clicks on image 342, an associated video clip is presented. Program information page 240 also contains title 344,  
20 actor information 346, and program description 348. Additional information may include content information 350 and genre information 352. If desired, information may be provided on the director, year of release, and other relevant items. Additional actor information may  
25 be supplied (e.g., in the form of biographical information and related video clips accessed by clicking on actors 346).

Interview icon 354, commentary icon 356, and promotional clip icon 358 represent available services.  
30 The user can view video clips of interviews on the selected program (i.e., the movie Birdcage) by clicking on the appropriate file-type option associated with

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Program information page 240 contains program listings 366, which provide program title, channel, and time and date information for the selected program. In the example shown in FIG. 30, the movie Birdcage is  
5 appearing on channel 35 (a pay-per-view channel) on three days in the next weekly period. When the user clicks on a pay-per-view entry in program listings 366, the user is taken to order page 336 (FIG. 31).

As shown in FIG. 31, order page 336 contains  
10 instructions 368 on how to order a pay-per-view event. Order page 336 also contains telephone number query box 370 and personal identification number box 372. The user may place an order for a pay-per-view event by clicking on place order button 374. Information  
15 entered by the user into boxes 370 and 372 is used to verify the user's identity and account status. Once the user's information has been verified, the selected pay-per-view event may be delivered to the user's multimedia system.

20 The way in which pay-per-view event orders are processed depends on the particular hardware used to deliver services to the user. Order and account verification information is generally electronically submitted to the headend cable system operator or a  
25 third party order fulfillment processor linked to the headend system. Equipment in the headend processes the order automatically and arranges for the delivery of the pay-per-view event to the user. Typically, the headend equipment directs equipment (such as a set-top  
30 box or similar integrated component) in the user's multimedia system to display the ordered event.

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broadcast time) by automatically tuning to the desired channel, by displaying a reminder message, or by issuing an audible reminder. Reminder messages may also be generated by web server 20 or 86 and  
5 transmitted to multimedia system 58 by e-mail.

If desired, these selectable recording and reminder features can be incorporated into other pages, such as program information page 240, one of the pages containing television program listings, or a page  
10 presented to the user after clicking on place order button 374.

When a user clicks on an advertisement (typically an image) in one of the web pages associated with the program guide service, the user may be taken  
15 directly to a more detailed advertisement page. Alternatively, the user may be taken to advertiser showcase page 376, as shown in FIG. 32. Advertiser showcase page 376 contains clickable images, such as images 378, 380, and 382, which are linked to more  
20 detailed advertising pages. Advertiser showcase page 376 also may contain a advertiser logo image, such as image 390. Text bar 392 contains clickable text fields that duplicate the selections available by clicking on images.

25 The advertiser logo image in advertiser showcase page 376 may be linked to the web site of the advertiser. For example, image 390 may be linked to a web site for UPN, so that if the user clicks on image 390, the user will be taken to the UPN web site.

30 If the user clicks on an image such as images 378, 380, or 382 in advertiser showcase page 376, the user is presented with advertisement page 394, as shown

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local cable site page 170. From local cable site page 170, the user can view community events page 178 by selecting the community events option. By selecting the cable feedback option, the cable operator option, 5 or the local weather option, the user can access cable feedback page 182, cable operator page 186, or local weather page 188.

If the user selects the go national option on welcome page 124, the user is taken to program guide 10 menu page 194 or movie guide menu page 196, depending on whether the user selected the program guide or movie guide option. Similarly, if the user selects the go satellite option on welcome page 124, the user is taken to program guide menu page 194 or movie guide menu page 15 196, depending on whether the user selected the program guide or movie guide option. The user can also reach program guide menu page 194 or movie guide menu page 196 from pick again page 152 or local cable site page 170. If the user reaches program guide menu page 194 20 from either pick again page 152 or local cable site page 170, the local area of interest to the user is retained by the system, so that subsequently displayed program guide listings can be customized to the user's local area.

25 When the user is at program guide menu page 194, selecting the program guide channel option tunes the system directly to program guide television channel 400. Similarly, selecting the movie guide channel option tunes the system to movie guide television 30 channel 402. Selecting the time option from program guide menu page 194 takes the user to by time page 218. If program is selected that is currently being

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view a promotional video clip for the hot pick. If the user selects the main event option from movie guide menu page 196, the user is presented with main event page 332. When the user selects a given event from  
5 main events page 332, the user is taken to program information page 240 to view information on that event. Alternatively, the user may be taken to order page 316 to place an order for the event.

          Selecting the movie cruiser option from movie  
10 guide menu page 196 presents the user with movie cruiser page 318. The user can view pay-per-view page 316 by selecting the pay-per-view option. The user can view premium services page 326 by selecting the premium option. Programs may be selected by the user from  
15 either pay-per-view page 316 or premium services page 326. In either case, the user is taken to program information page 240 to view additional information on the selected program.

          Program information page 240 allows the user  
20 to view multimedia material on a given program, interview, event, etc. The content of program information page 240 depends on the path taken to reach program information page 240 and the options selected by the user. Program information page 240 contains  
25 options that allow the user to select a program to view. When the user makes such a program selection, the user is presented with order page 336.

          The foregoing is merely illustrative of the principles of this invention and various modifications  
30 can be made by those skilled in the art without departing from the scope and spirit of the invention.

- 45 -

6. The system defined in claim 1 further comprising means for providing a go satellite option which the user selects to receive information based on television listings for satellite coverage.

7. The system defined in claim 1 further comprising means for providing a go local option which the user selects to receive information based on local television listings.

8. The system defined in claim 7 further comprising means for selecting a locality for the local television listings.

9. The system defined in claim 8 wherein the means for selecting a locality comprises means for accepting a zip code from which the locality is determined.

10. The system defined in claim 8 wherein the means for selecting a locality comprises means for selecting a local region from a map.

11. The system defined in claim 8 further comprising means for presenting a pick again web page when television program listings are not available for the selected locality.

12. The system defined in claim 1 further comprising means for presenting web pages containing advertising images that the user selects.



- 47 -

means for providing a direct tune option when a selected program is currently being broadcast; and

means for tuning the multimedia system to the television channel for the selected program when the user selects the direct tune option.

18. The system defined in claim 1 further comprising means for providing a selectable option to arrange the television program listings by time.

19. The system defined in claim 1 further comprising means for providing a selectable option to arrange the television program listings by channel.

20. The system defined in claim 1 further comprising means for providing a selectable option to arrange the television program listings by category.

21. The system defined in claim 1 further comprising means for searching the television program listings.

22. The system defined in claim 21 further comprising means for searching the television program listings by title.

23. The system defined in claim 21 further comprising means for searching the television program listings by actor.

- 49 -

containing selectable pay-per-view channels and premium channels.

32. The system define in claim 31 further comprising means for providing a pay-per-view web page containing program listings for upcoming pay-per-view events for a pay-per-view channel selected by the user.

33. The system defined in claim 31 further comprising means for providing a premium services web page containing program listings for upcoming premium programs for a premium channel selected by the user.

34. The system defined in claim 1 further comprising means for providing an order web page.

35. The system defined in claim 1 further comprising means for providing a customization web page.

36. The system defined in claim 1 further comprising means for providing a program information web page.

37. The system defined in claim 36 wherein the program information web page is customized to reflect information for a television program selected by the user.

38. The system defined in claim 1 wherein the computer system comprises a media library.

- 51 -

43. The method defined in claim 42 wherein the step of providing multimedia material further comprises the step of providing promotional video clips to the web server with the computer system.

44. The method defined in claim 42 wherein the step of providing multimedia material further comprises the step of providing interview video segments to the web server with the computer system.

45. The method defined in claim 41 further comprising the step of providing a go national option which the user selects to receive information based on national television listings.

46. The method defined in claim 41 further comprising the step of providing a go satellite option which the user selects to receive information based on television listings for satellite coverage.

47. The method defined in claim 41 further comprising the step of providing a go local option which the user selects to receive information based on local television listings.

48. The method defined in claim 47 further comprising the step of selecting a locality for the local television listings.

49. The method defined in claim 48 wherein the step of selecting a locality comprises the step of

- 53 -

presenting a movie guide menu web page when the user selects the movie guide option.

56. The method defined in claim 41 further comprising the steps of:

providing a guide television channel option; and

tuning the multimedia system to a guide television channel when the user selects the guide option.

57. The method defined in claim 41 further comprising the steps of:

providing a direct tune option when a selected program is currently being broadcast; and

tuning the multimedia system to the television channel for the selected program when the user selects the direct tune option.

58. The method defined in claim 41 further comprising the step of providing a selectable option to arrange the television program listings by time.

59. The method defined in claim 41 further comprising the step of providing a selectable option to arrange the television program listings by channel.

60. The method defined in claim 41 further comprising the step of providing a selectable option to arrange the television program listings by category.

- 55 -

69. The method defined in claim 41 further comprising the step of displaying promotional media clips selected by the user.

70. The method defined in claim 69 further comprising the step of providing a hot picks web page containing selectable hot picks images for promotional media clips that are available.

71. The method defined in claim 41 further comprising the step of providing a movie cruiser web page containing selectable pay-per-view channels and premium channels.

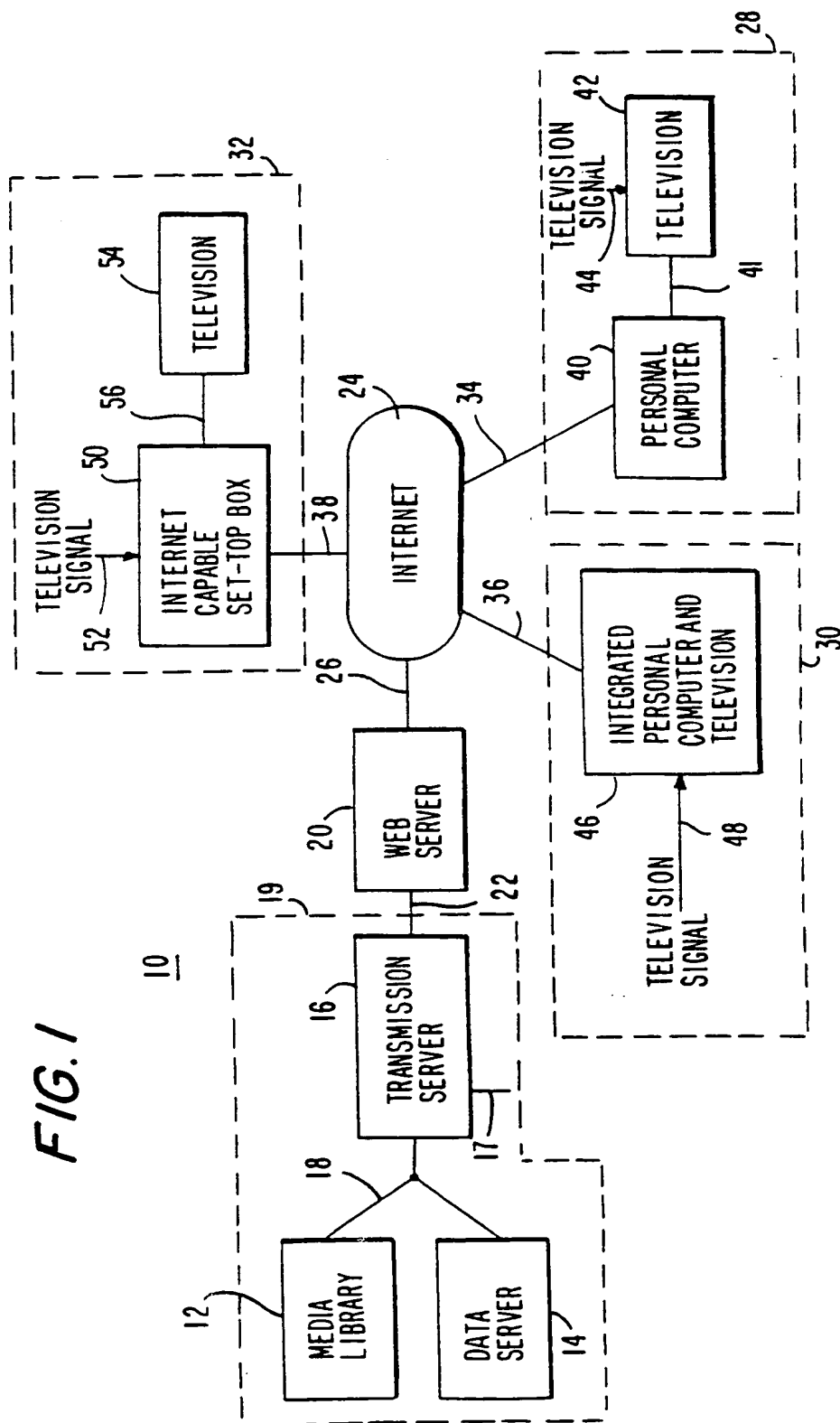
72. The method define in claim 71 further comprising the step of providing a pay-per-view web page containing program listings for upcoming pay-per-view events for a pay-per-view channel selected by the user.

73. The method defined in claim 71 further comprising the step of providing a premium services web page containing program listings for upcoming premium programs for a premium channel selected by the user.

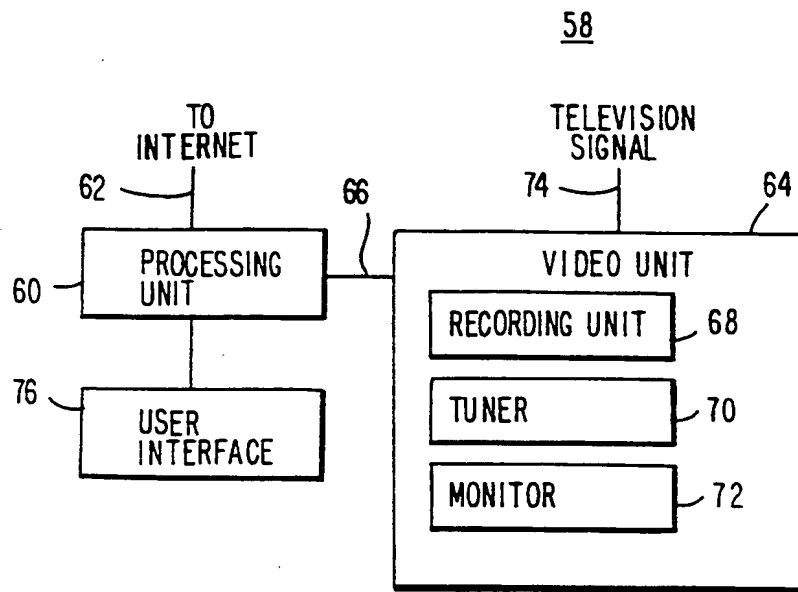
74. The method defined in claim 41 further comprising the step of providing an order web page.

75. The method defined in claim 41 further comprising the step of providing a customization web page.

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2/34

**FIG. 2**

3 / 34

FIG. 3

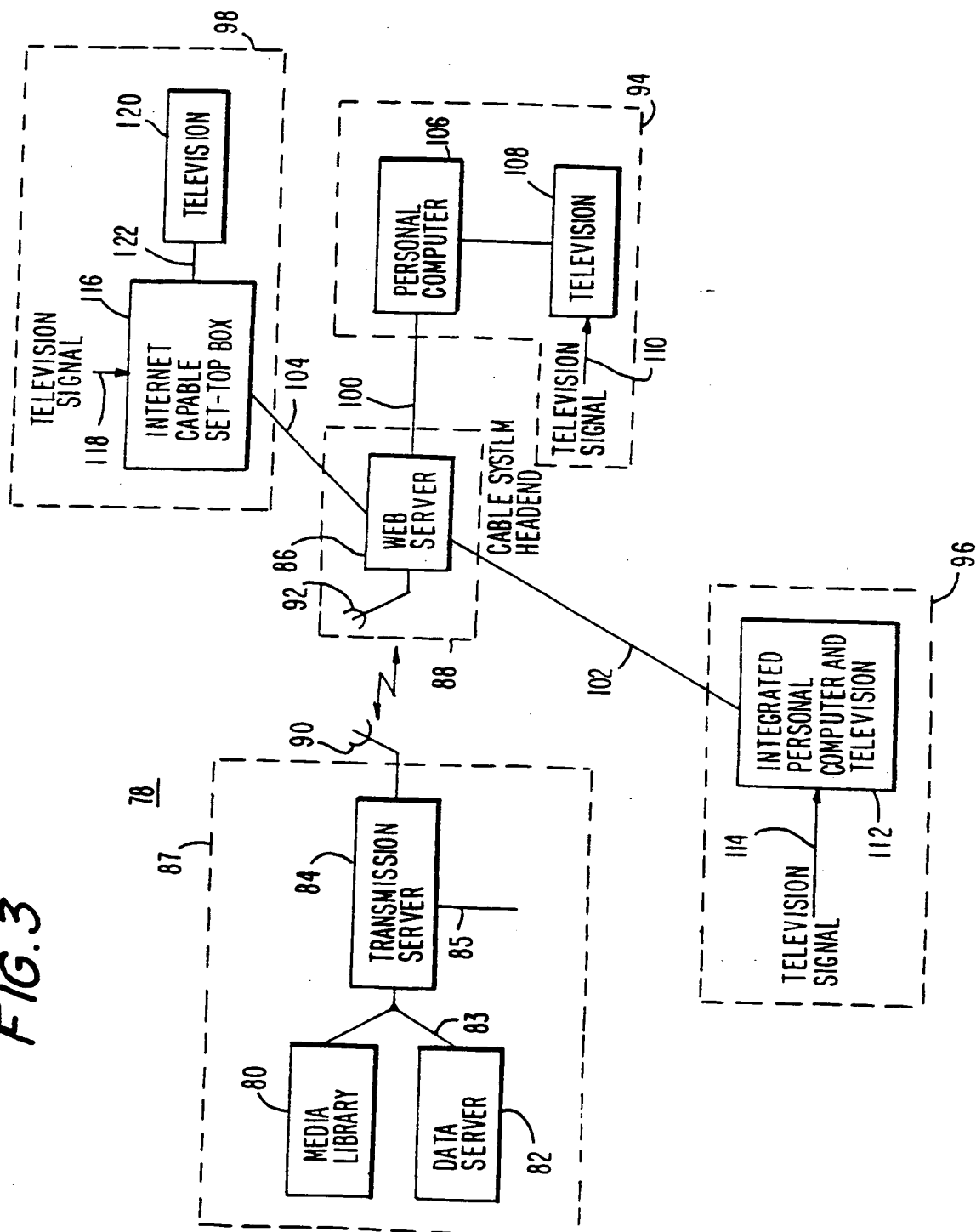
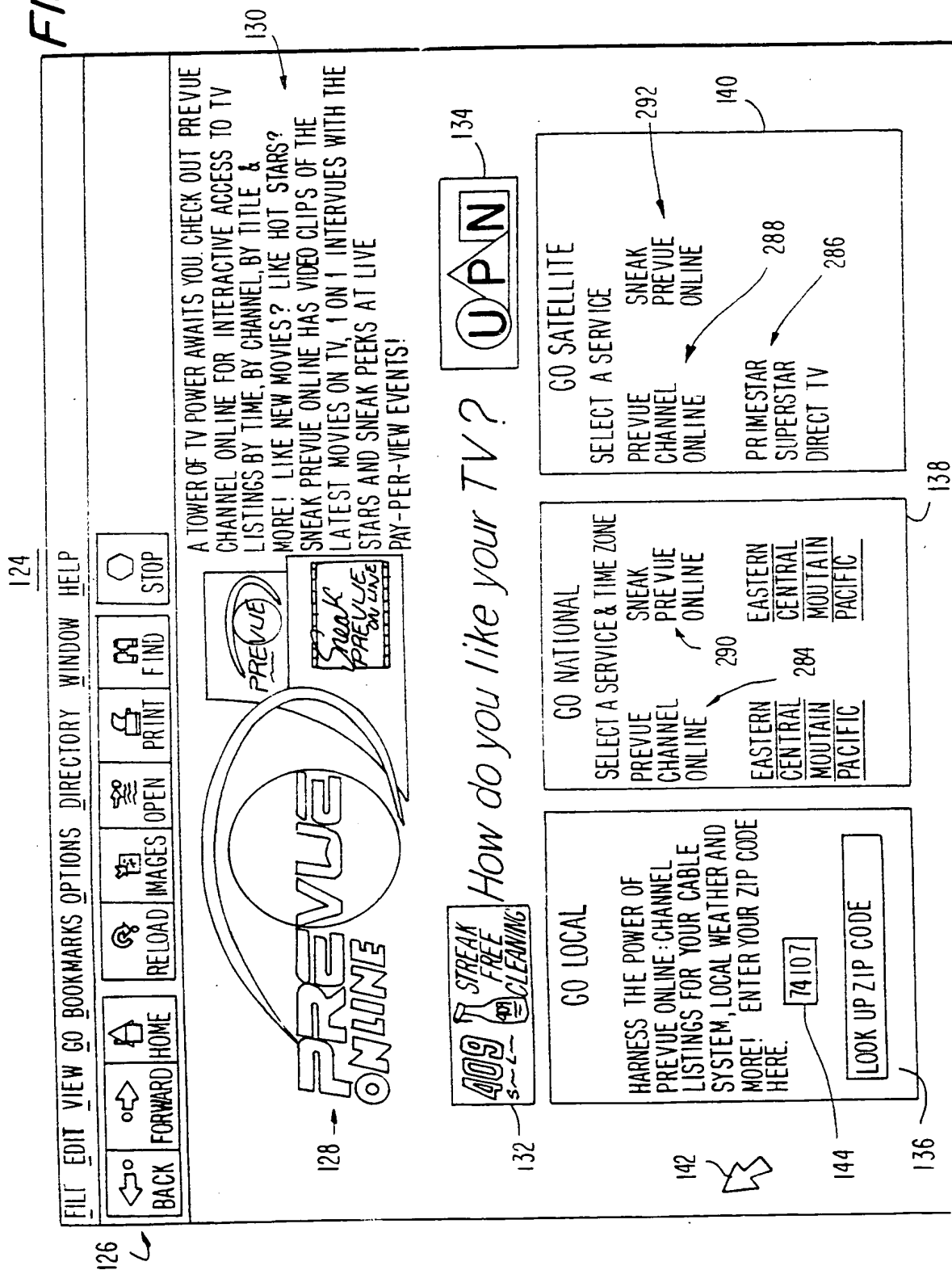




FIG. 4

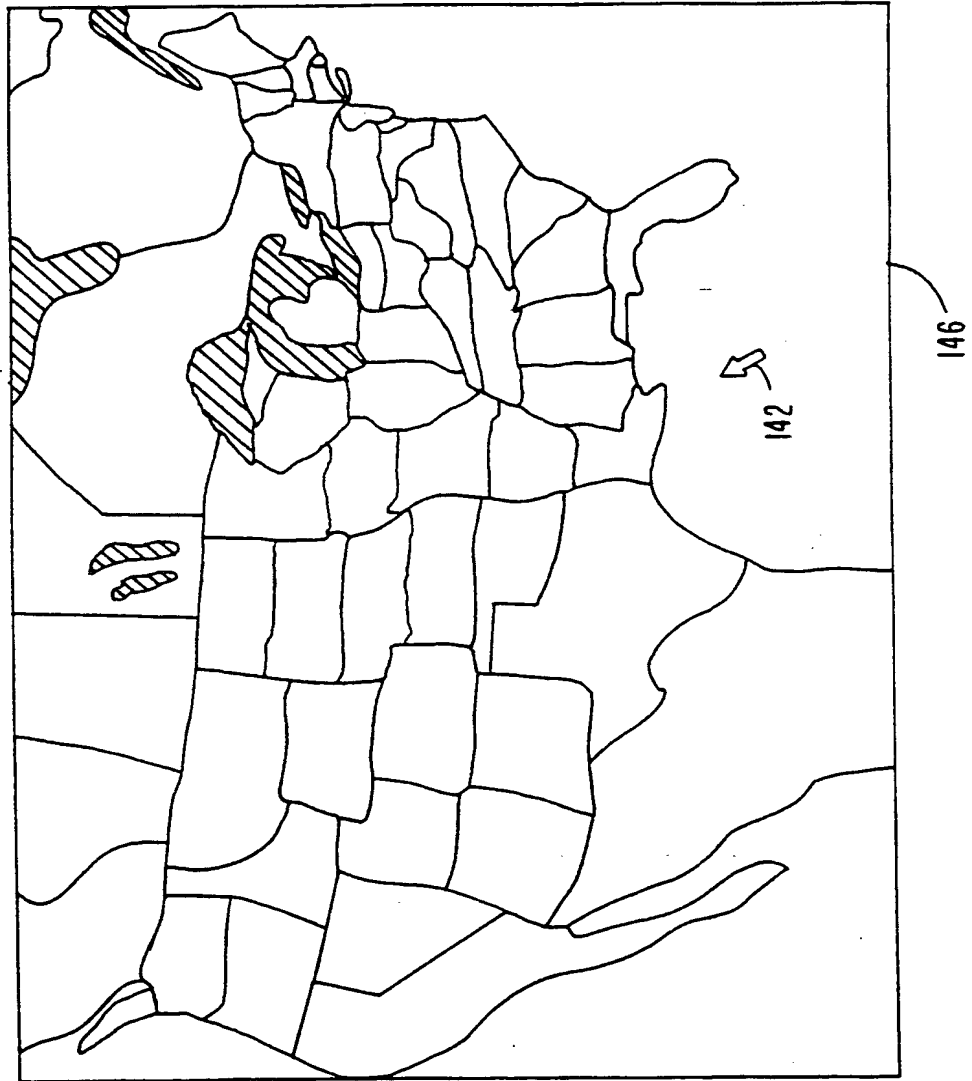
4/34



5/ 34

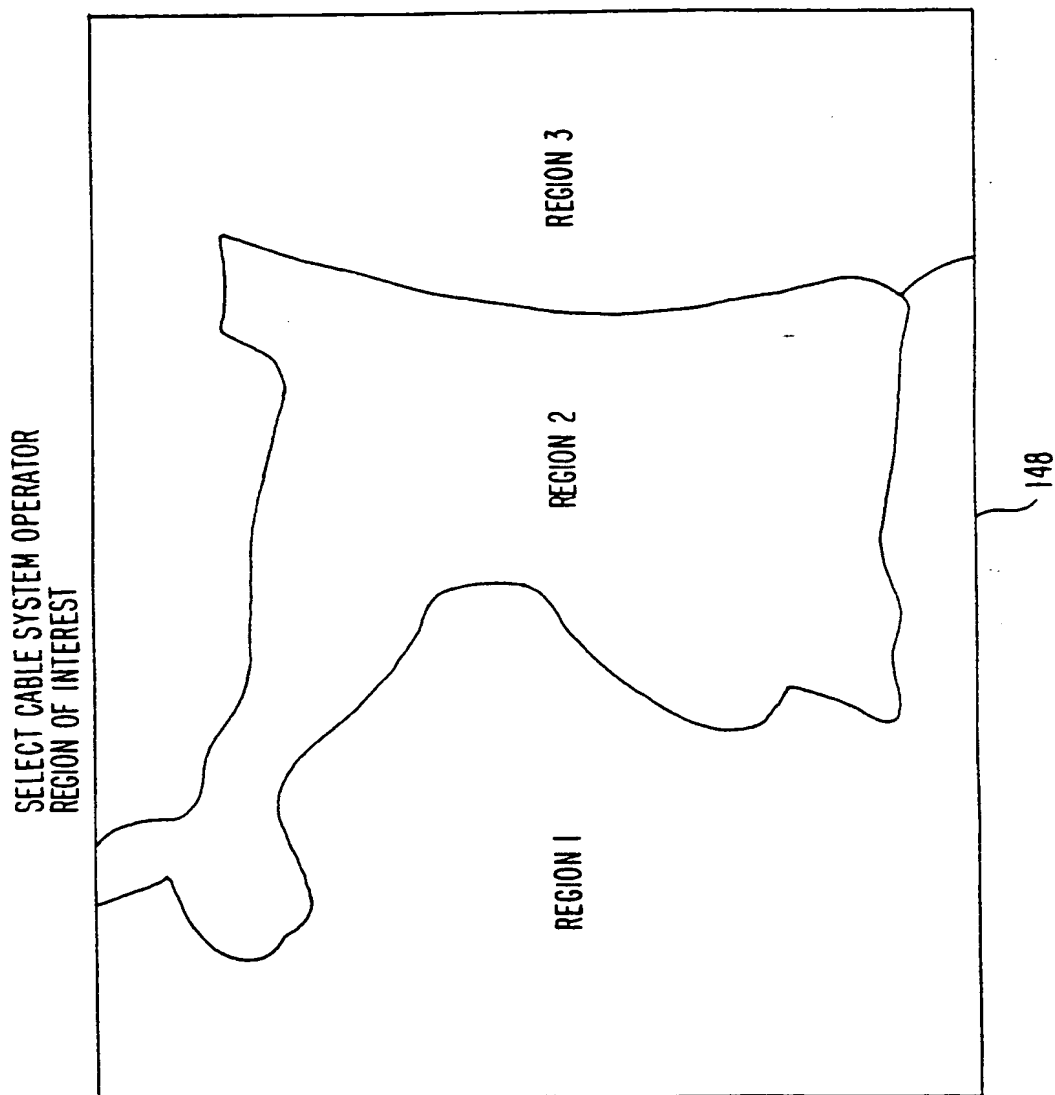
FIG. 5

SELECT STATE OF INTEREST



6/34




**FIG. 6**



7/34

FIG. 7

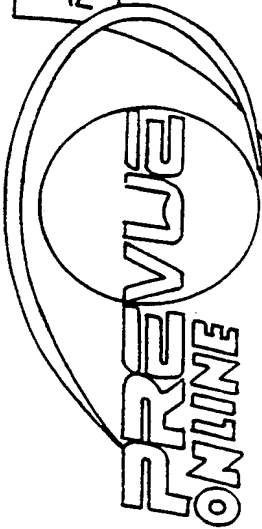
150

		
<p style="text-align: center;">SORRY, LOCAL LISTINGS ARE NOT CURRENTLY AVAILABLE IN YOUR AREA.</p> <p>LOCAL LISTINGS ON PREVUE ONLINE ARE A SEPARATE SERVICE FROM THE PREVUE CHANNEL. YOUR CABLE COMPANY WILL NEED TO SUBSCRIBE TO THIS SERVICE IN ORDER FOR YOU TO GET TO LOCAL LISTINGS. WE OFFER NATIONAL LISTINGS FOR THOSE AREAS NOT YET COVERED, AND WE'RE CONTACTING CABLE SYSTEMS AS FAST AS WE CAN. PLEASE FILL OUT THE FORM BELOW TO FORWARD TO YOUR TO CABLE COMPANY. THANKS FOR YOUR SUPPORT!</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>YOUR E-MAIL ADDRESS <input style="width: 90%;" type="text"/></p> <p>YOUR CABLE PROVIDER <input style="width: 90%;" type="text"/></p> <p>YOUR ZIP CODE <input style="width: 90%;" type="text"/></p> <p>COMMENTS <input style="width: 90%;" type="text"/></p> </div> <div style="width: 50%; text-align: right;"> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <input type="button" value="SUBMIT"/> <input type="button" value="RESET FORM"/> </div> </div> </div>		


8/34

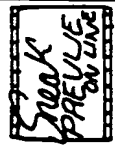
FIG. 8


152



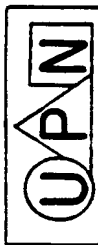
A TOWER OF TV POWER AWAITS YOU. CHECK OUT PREVUE CHANNEL ONLINE FOR INTERACTIVE ACCESS TO TV LISTINGS BY TIME, BY CHANNEL, BY TITLE & MORE! LIKE NEW MOVIES? LIKE HOT STARS? SNEAK PREVUE ONLINE HAS VIDEO CLIPS OF THE LATEST MOVIES ON TV, 1 ON 1 INTERVIEWS WITH THE STARS AND SNEAK PEEKS AT LIVE PAY-PER-VIEW EVENTS!







Can't go local?  
Please pick again!



SELECT A CITY

TO SEE WHAT PREVUE ONLINE COULD OFFER IN YOUR CABLE AREA, CHECK OUT ONE OF THESE SITES

158  156

GO NATIONAL

SELECT A SERVICE & TIME ZONE

PREVUE	SNEAK	EASTERN
CHANNEL	PREVUE	CENTRAL
ONLINE	ONLINE	MOUNTAIN
		PACIFIC

284 290

GO SATELLITE

SELECT A SERVICE

PREVUE	SNEAK
CHANNEL	PREVUE
ONLINE	ONLINE

288 292

PRIMESTAR  
SUPERSTAR  
DIRECT TV

154

160

136

286

140

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FIG. 9

166 162 164 168

BLACK FLAG

PRIME CHANNEL ONLINE

Help us to serve you better

TO BETTER BRING YOU THE TV ENTERTAINMENT YOU WANT MOST,  
WE NEED A LITTLE INFORMATION FIRST

YOUR E-MAIL ADDRESS

MODEM CONNECT SPEED  
☐ 14.4 bps ☐ 28.8 bps ☐ 33.6 bps ☐ ISDN ☐ T-1

PROCESSOR SPEED  
☐ 486 PC OR SLOWER  
☐ PENTIUM PC  
☐ UNIX OR OTHER

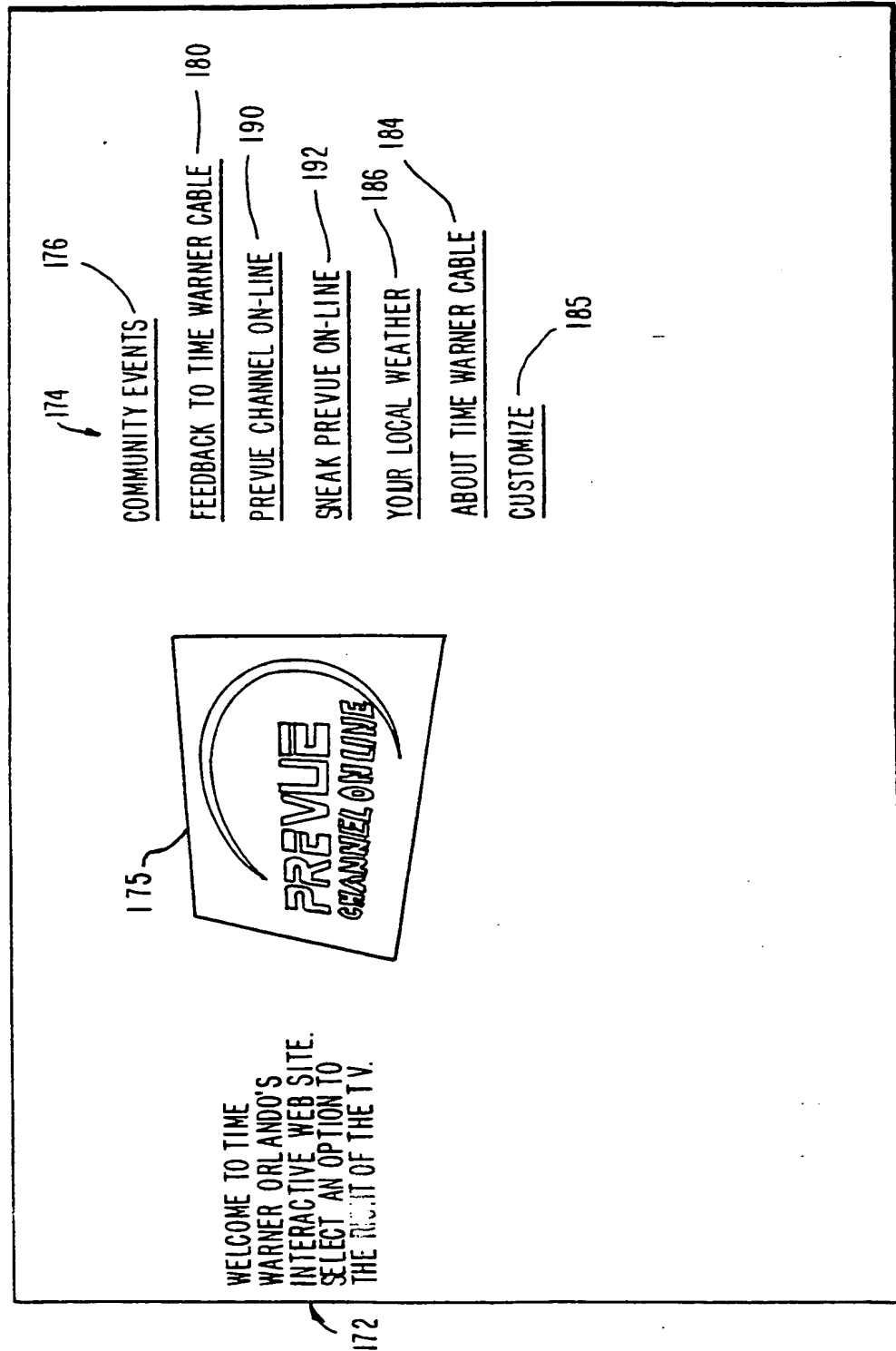
☐ 68K MACINTOSH  
☐ POWER MACINTOSH

168

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FIG. 10

170




11/34

FIG. 11

178

STAR TREK VOYAGER	92	PREVIEW CHANNEL ONLINE	TCI	STAR TREK VOYAGER
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## Community Events

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DECEMBER 6, 1996

-JAZZFEST UNDER THE STARS-

ENJOY FREE ENTERTAINMENT AT HOSPITALITY POINT. ARRIVE EARLY FOR THE BEST SEATS. SESSION BEGINS AT 8PM.  
SPONSORED BY STATION KIFM COOL JAZZ.

---

DECEMBER 11, 1996

COMMUNITY CENTER OF EL CAJON.

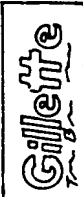





COMMUNITY WATCH GROUP MEETING, ROOM 16 NEW MEMBER SIGN-UP WED. 11 @ 6:00PM.



12/ 34

FIG. 12

182

					
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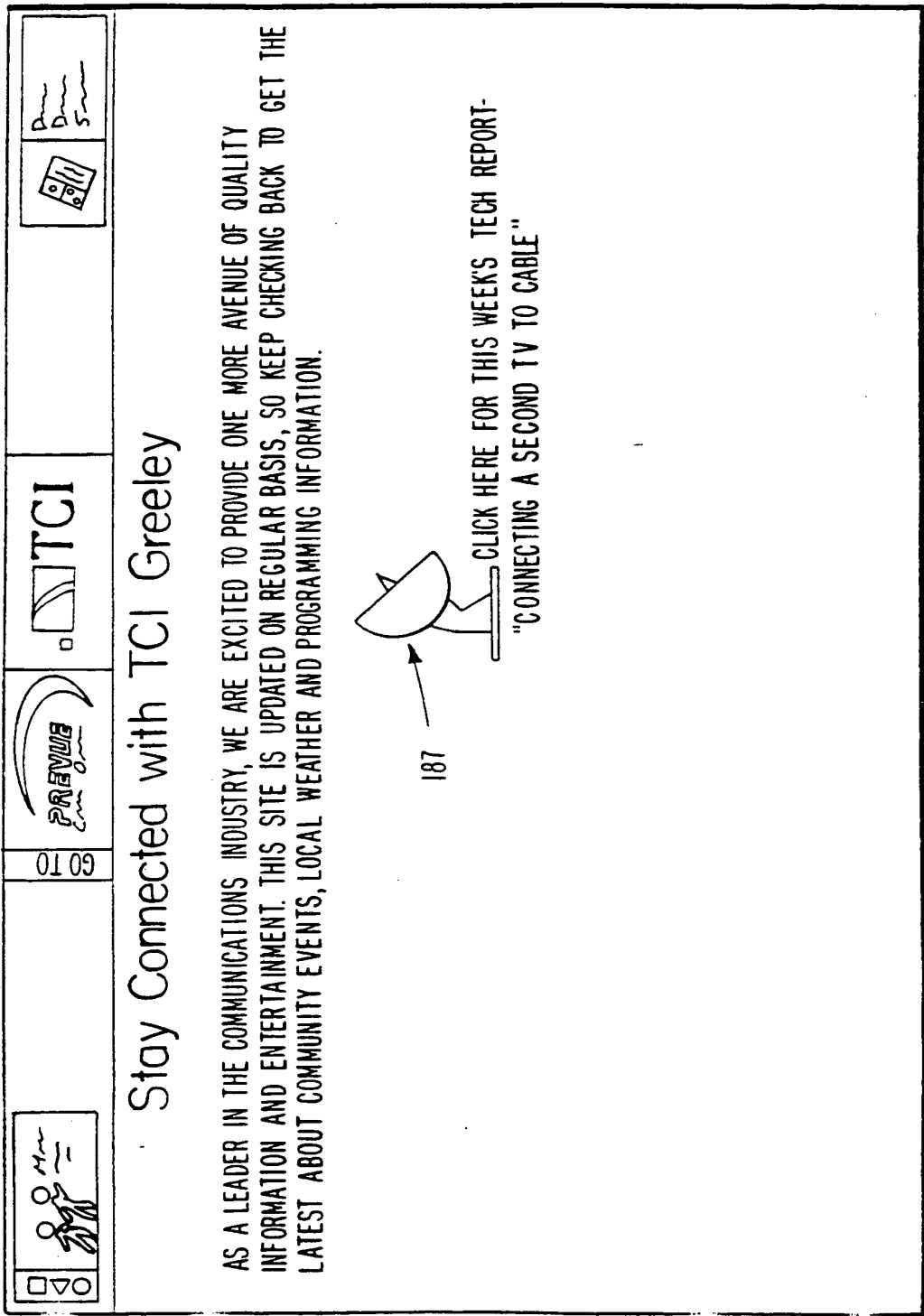
## Feedback to Time Warner Orlando

YOUR E-MAIL ADDRESS:

COMMENTS

FIG. 13

186



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**FIG. 14**

881

	THERE'S ONLY ONE MATCH FOR MATCHLIGHT!	
COMBAT WHERE THEY LIVE		

LOCAL WEATHER FORECAST FOR TULSA, OK

SUN	MON	TUE	WED	THU
50°F	51°F	52°F	53°F	54°F
30°F	31°F	32°F	33°F	34°F

CURRENT CONDITIONS

LIGHT RAIN  
TEMP 68°F  
WIND S 13 MPH  
PRESSURE 29.87in  
HUMIDITY 92%  
DEW POINT 64°F

TONIGHT

THUNDERSTORMS LIKELY, OCCASIONALLY HEAVY. LOWS IN MID-30s.

15/34

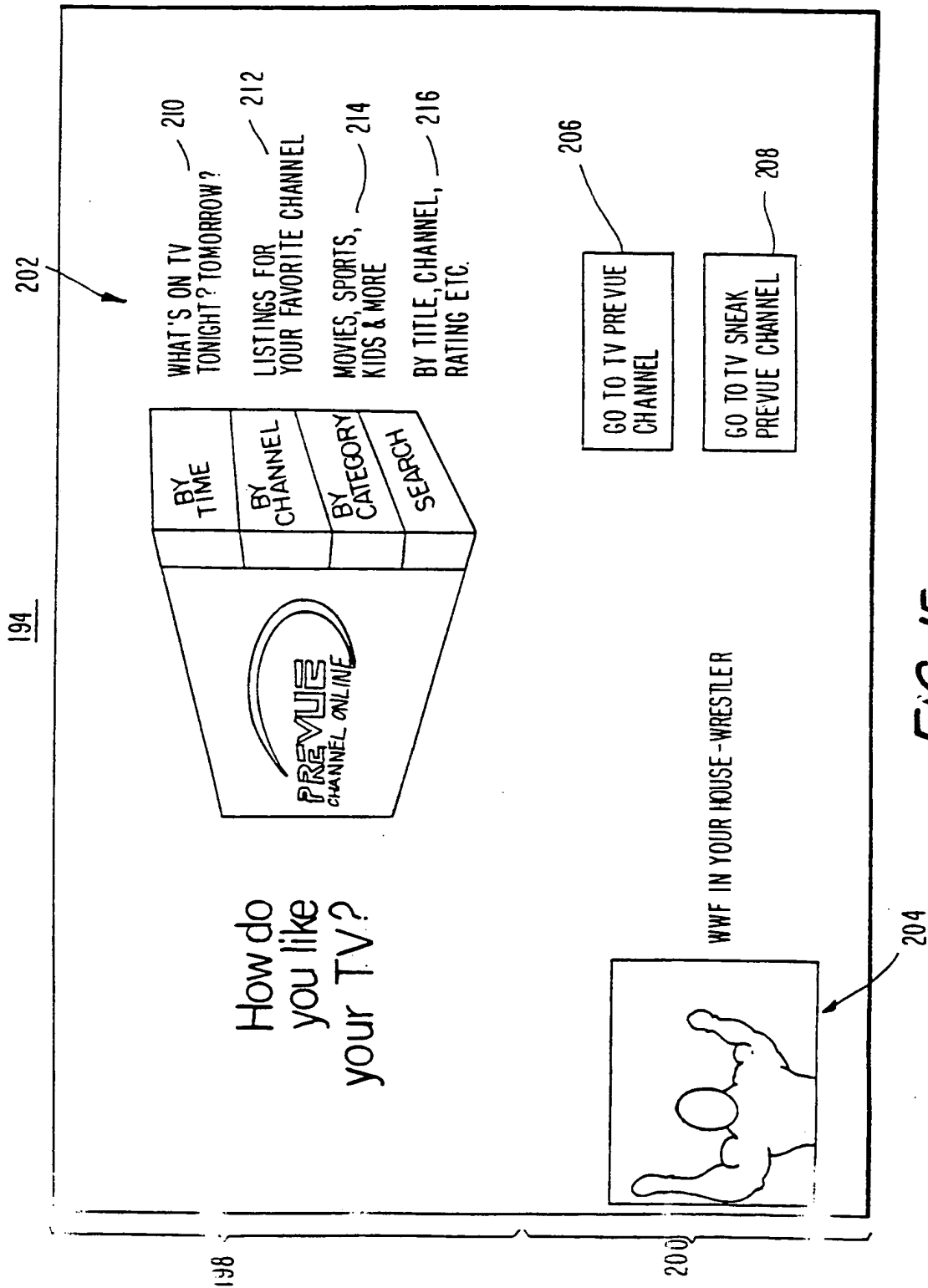
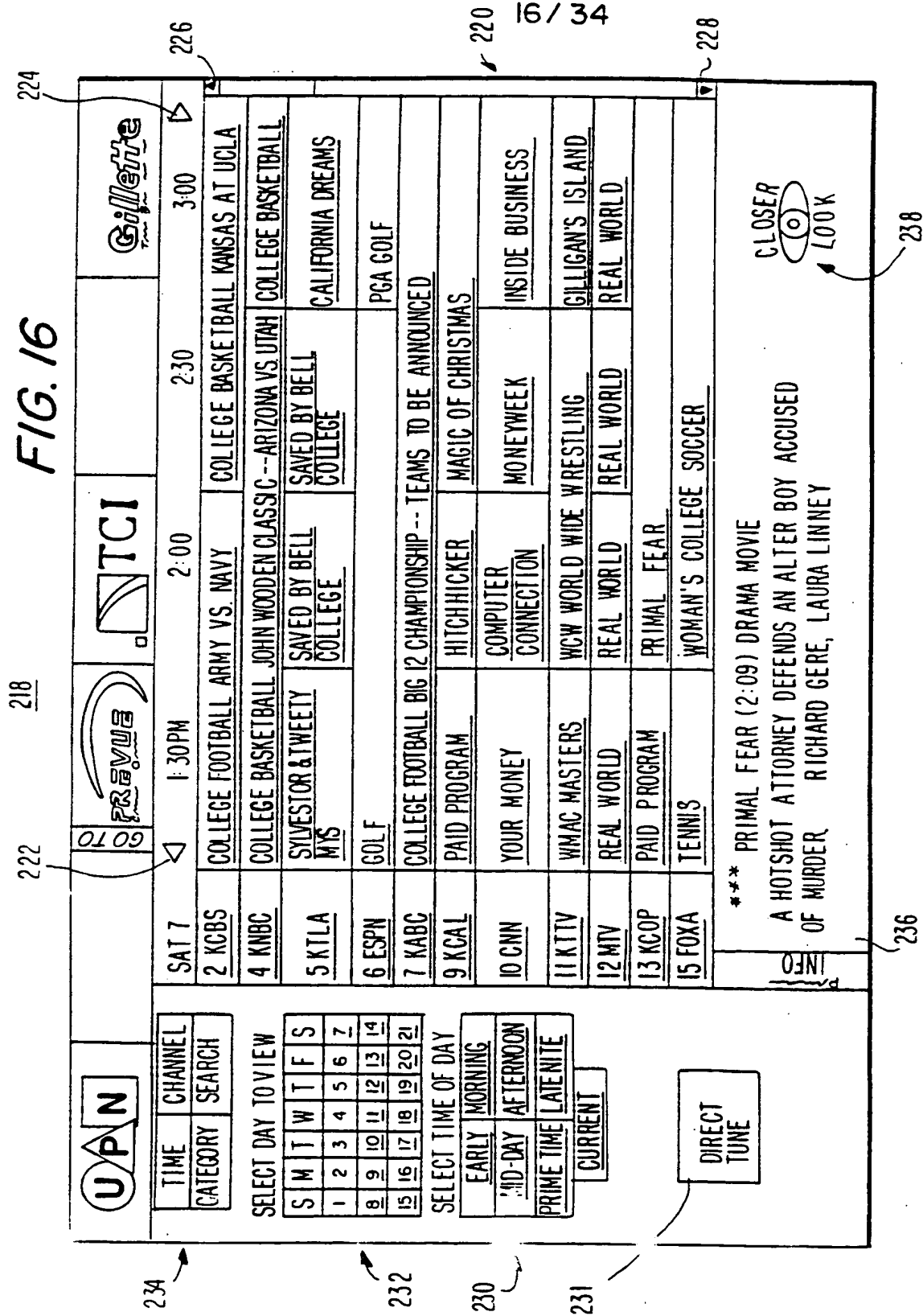


FIG. 15

FIG. 16



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FIG. 17

242































																																																													
<table border="1"> <tr> <td>TIME</td> <td>CHANNEL</td> </tr> <tr> <td>CATEGORY</td> <td>SEARCH</td> </tr> </table>		TIME	CHANNEL	CATEGORY	SEARCH	<table border="1"> <thead> <tr> <th>CHANNEL</th> <th>DESCRIPTION</th> <th>CHANNEL</th> <th>DESCRIPTION</th> <th>CHANNEL</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>2</td> <td>KCBS</td> <td><b>4</b></td> <td>4</td> <td>KNBC</td> </tr> <tr> <td><b>5</b></td> <td>5</td> <td>KTIL</td> <td></td> <td>6</td> <td>ESPN</td> </tr> <tr> <td></td> <td>7</td> <td>KABC</td> <td></td> <td>9</td> <td>KCAL</td> </tr> <tr> <td></td> <td>10</td> <td>CNN</td> <td></td> <td>11</td> <td>KTTV</td> </tr> <tr> <td></td> <td>12</td> <td>MTV</td> <td></td> <td>13</td> <td>KCOP</td> </tr> <tr> <td></td> <td>15</td> <td>           FOXA            FOX            SPORTS            WEST         </td> <td></td> <td>16</td> <td>LIFE</td> </tr> <tr> <td></td> <td>17</td> <td>           USA            USANET         </td> <td></td> <td>18</td> <td>KSCI</td> </tr> </tbody> </table>								CHANNEL	DESCRIPTION	CHANNEL	DESCRIPTION	CHANNEL	DESCRIPTION		2	KCBS	<b>4</b>	4	KNBC	<b>5</b>	5	KTIL		6	ESPN		7	KABC		9	KCAL		10	CNN		11	KTTV		12	MTV		13	KCOP		15	FOXA FOX SPORTS WEST		16	LIFE		17	USA USANET		18	KSCI
TIME	CHANNEL																																																												
CATEGORY	SEARCH																																																												
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	12	MTV		13	KCOP																																																								
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	17	USA USANET		18	KSCI																																																								
<p>SELECT DAY TO VIEW</p> <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> </tr> <tr> <td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td> </tr> <tr> <td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td> </tr> </table> <p>SELECT TIME OF DAY</p> <table border="1"> <tr> <td>EARLY MORNING</td> </tr> <tr> <td>MID-DAY AFTERNOON</td> </tr> <tr> <td>PRIME TIME LATE NITE</td> </tr> </table> <p><b>CURRENT</b></p>		S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	EARLY MORNING	MID-DAY AFTERNOON	PRIME TIME LATE NITE	<p>246</p> <p><b>DIRECT TUNE</b></p> <p>248</p> <p>244</p>																												
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MID-DAY AFTERNOON																																																													
PRIME TIME LATE NITE																																																													

FIG. 18

250

256

				
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TIME	CHANNEL	CATEGORY	SEARCH	SELECT DAY TO VIEW																												
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> </tr> <tr> <td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td> </tr> <tr> <td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td> </tr> </table>					S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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MID-DAY	AFTERNOON																															
PRIME TIME	LATE NITE																															
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TIME & DATE	2 KCBS DESCRIPTION
11:00AM	COLLEGE FOOTBALL: ARMY VS. NAVY
2:30PM	COLLEGE BASKETBALL: KANSAS AT UCLA
3:00PM	PAID PROGRAM
3:30PM	PAID PROGRAM
6:00PM	BEACH PATROL
7:00PM	COAST GUARD
7:30PM	CBS EVENING
8:00PM	NEWS
9:00PM	ENTERTAINMENT TONIGHT
10:00PM	DR. QUINN, MEDICINE WOMAN
11:00PM	EARLY EDITION
SUN 08	
12:00AM	WALKER, TEXAS RANGER

254

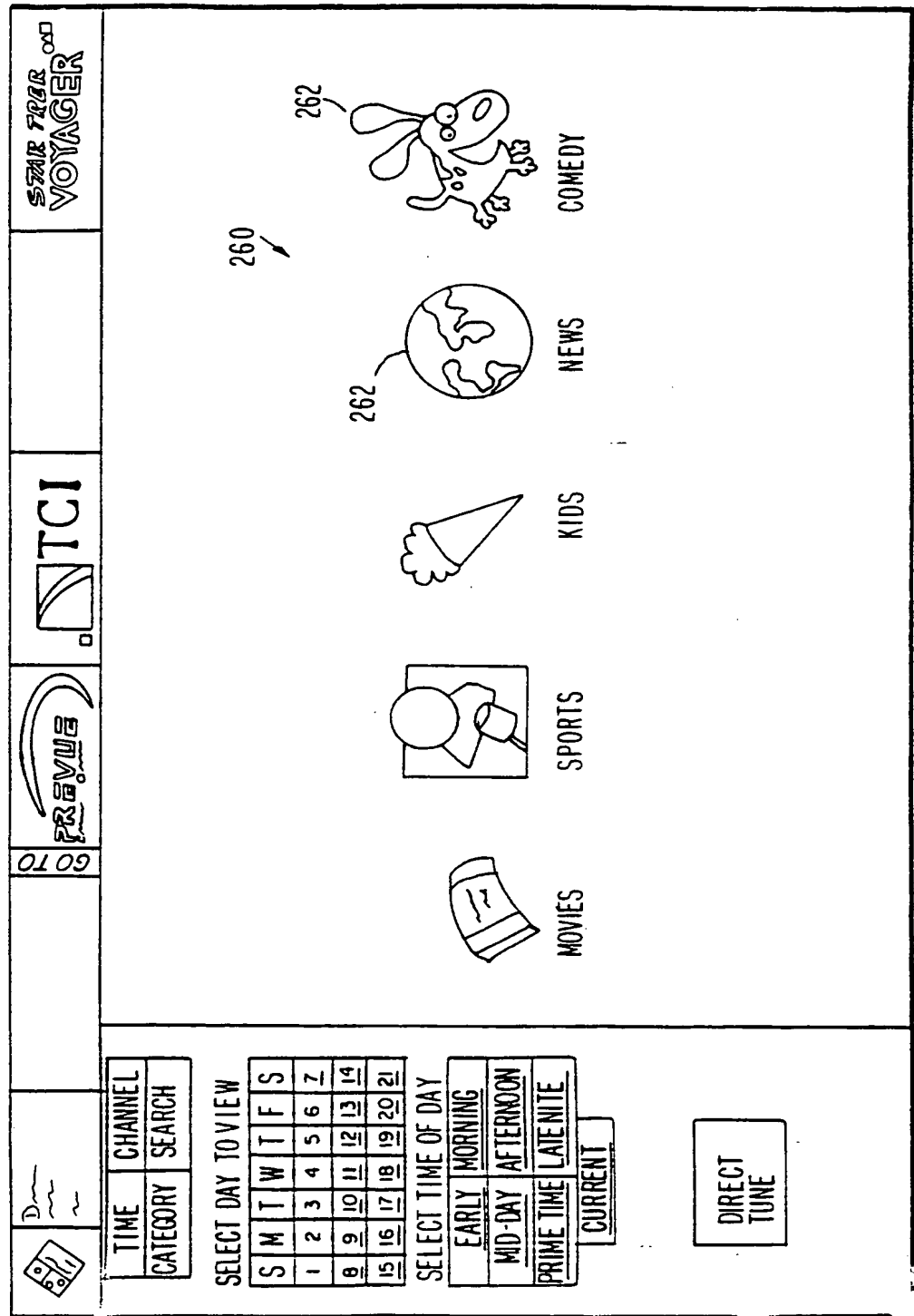
252

WHAT'S ON BY PREVIEW INTERACTIVE...

FIG. 19

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FIG. 20


264



GO TO







TIME	CHANNEL
CATEGORY	SEARCH

LISTING FOR GENRE-MOVIE

TIME & DATE	CHANNEL	MOVIE
SAT 07 12:00PM	21 AMC	LAND OF THE PHAROHS
SAT 07 12:00PM	36 REQ	THE CRAFT
SAT 07 12:00PM	96 TCM	IN THE GOOD OLD SUMMERTIME
SAT 07 12:00PM	99 ENCORE	SEX AND THE SINGLE GIRL
SAT 07 12:25PM	25 SHOW	MAD LOVE
SAT 07 12:30PM	95 FLIX	MOTHER JUGS & SPEED
SAT 07 12:30PM	98 SPICE	EROTIC PRINCESS
SAT 07 1:00PM	26 TMC	BABETTES FEAST
SAT 07 1:00PM	35 REQ	THE BIRD CAGE

266

270

WHAT'S ON BY PREVIEW INTERACTIVE

266

270

WHAT'S ON BY PREVIEW INTERACTIVE

266

270

WHAT'S ON BY PREVIEW INTERACTIVE

266

FIG. 21

272

UPN

GO TO

PRIMETIME LIVE

TCI

UPN

TIME	CHANNEL
CATEGORY	SEARCH

SELECT DAY TO VIEW

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

SELECT TIME OF DAY

EARLY MORNING
MID-DAY AFTERNOON
PRIME TIME LATE NITE

CURRENT

ENTER SEARCH TEXT:

276

SEARCH WITHIN:

TITLE
ACTOR
CATEGORY
DESCRIPTION
RATING

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FIG. 22

278

**Gillette**

TIME	CHANNEL
CATEGORY	SEARCH

GO TO

**PREVIEW**

**TCI**

LISTING FOR ACTOR = GIBSON

282

SELECT DAY TO VIEW

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

SELECT TIME OF DAY

EARLY MORNING
MID-DAY AFTERNOON
PRIME TIME LATE NITE

CURRENT

TIME & DATE	CHANNEL	PROGRAM
TUE 10 10:00AM	23 HBO	FOREVER YOUNG
TUE 10 8:00 PM	23 HBO	FOREVER YOUNG
SAT 14 4:15 PM	23 HBO	FOREVER YOUNG
SUN 15 1:00 PM	7 KABC	TO LOVE, HONOR AND DECEIVE
TUE 17 4:00AM	95 FLIX	MADMAX
FRI 20 8:15AM	23 HBO	FOREVER YOUNG
FRI 20 7:15PM	23 HBO	FOREVER YOUNG

INFO

280 WHAT'S ON BY PREVUE INTERACTIVE...

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FIG. 23

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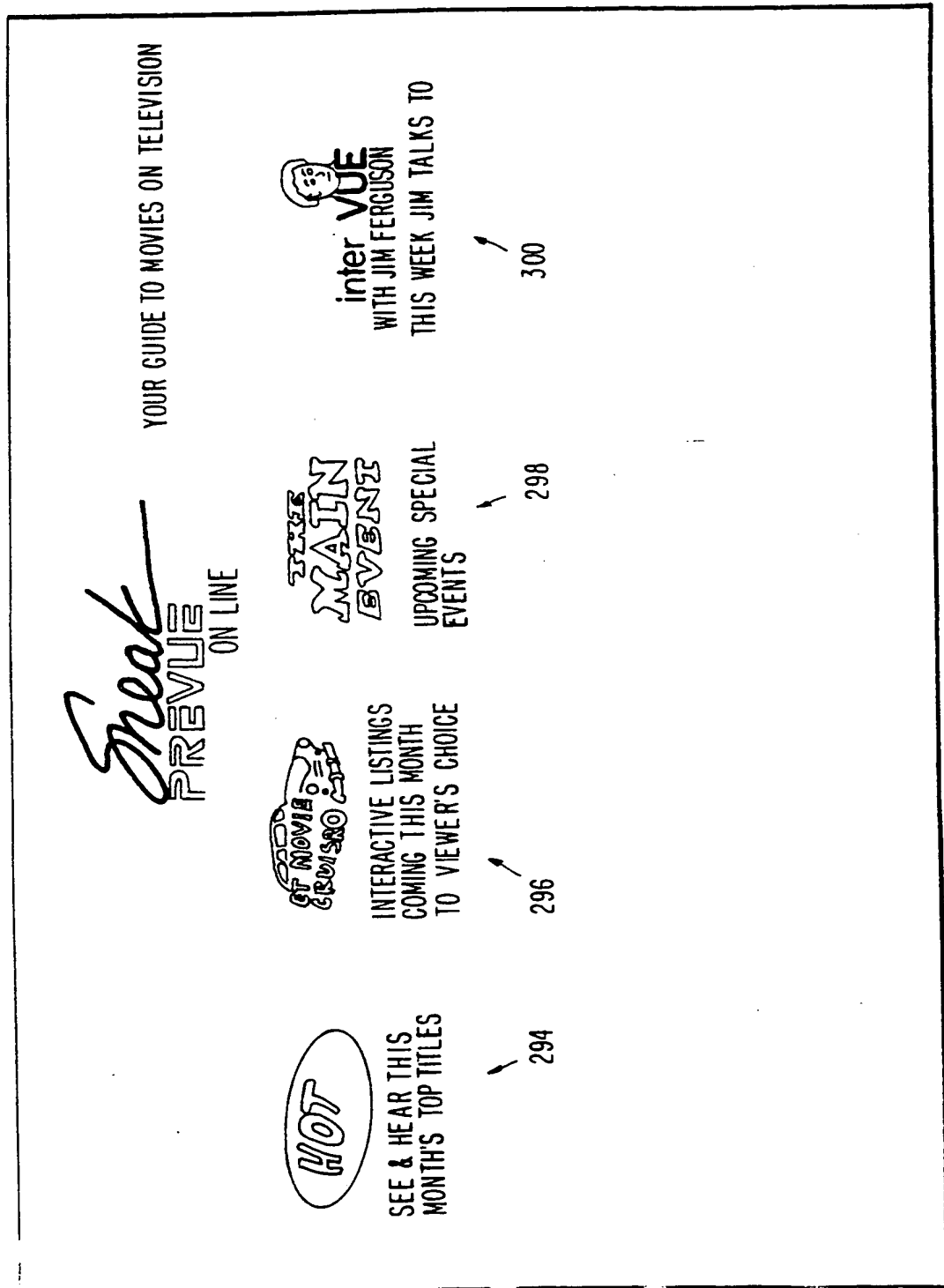


FIG. 24

302

NOT  
FIX

CLICK ON A TITLE OR SCREEN SHOT TO GET VIDEO & AUDIO INTERVUES, TRAILERS,  
BEHIND-THE-SCENES AND MORE!

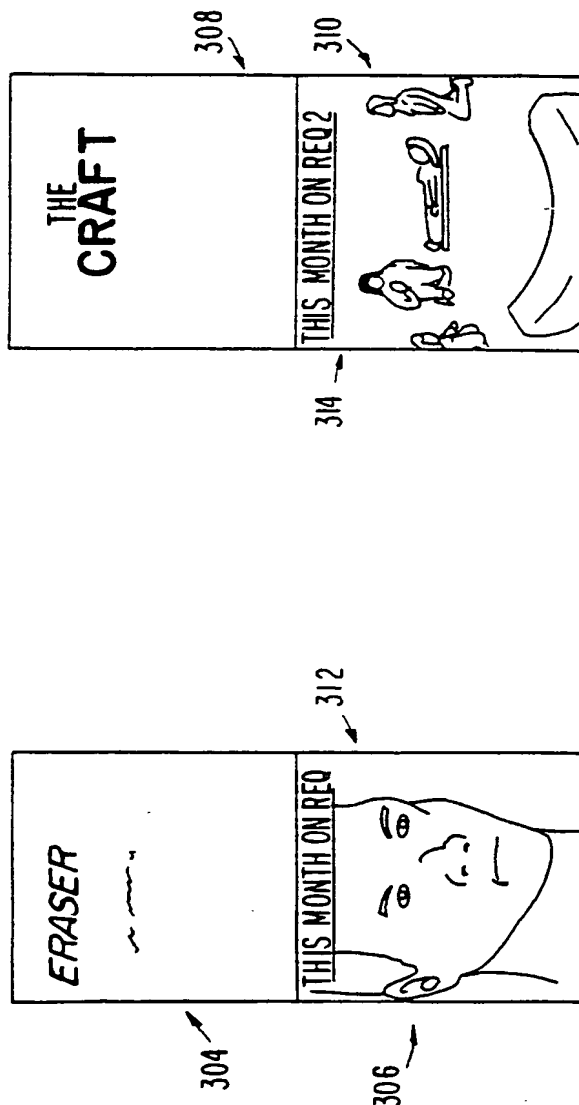
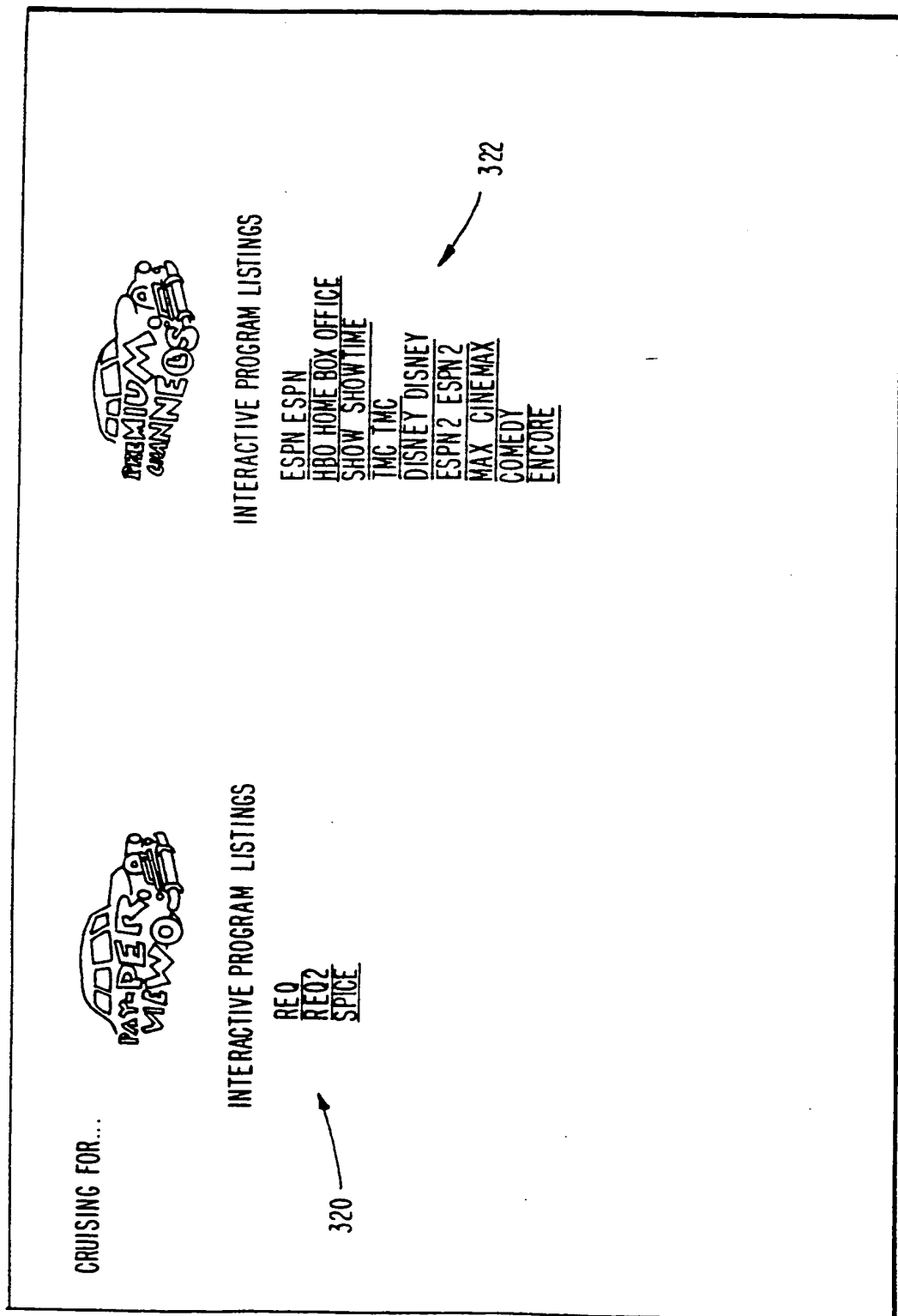


FIG 25









318



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FIG. 26

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<table border="1"> <tr> <td>TIME</td> <td>CHANNEL</td> </tr> <tr> <td>CATEGORY</td> <td>SEARCH</td> </tr> </table>		TIME	CHANNEL	CATEGORY	SEARCH	<table border="1"> <tr> <td colspan="2">TIME &amp; DATE</td> <td colspan="2">35 REQ: DESCRIPTION</td> </tr> <tr> <td colspan="2">1:00PM</td> <td colspan="2">THE BIRDCAGE</td> </tr> <tr> <td colspan="2">3:00PM</td> <td colspan="2">STEALING BEAUTY</td> </tr> <tr> <td colspan="2">5:00PM</td> <td colspan="2">PRIMAL FEAR</td> </tr> <tr> <td colspan="2">7:30PM</td> <td colspan="2">COUNTDOWN</td> </tr> <tr> <td colspan="2">8:00PM</td> <td colspan="2">ULTIMATE ULTIMATE 1996</td> </tr> <tr> <td colspan="2">11:00PM</td> <td colspan="2">ULTIMATE ULTIMATE 1996</td> </tr> <tr> <td colspan="2">SUN 08</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">2:00AM</td> <td colspan="2">HEAVY METAL</td> </tr> <tr> <td colspan="2">3:30AM</td> <td colspan="2">PRIMAL FEAR</td> </tr> <tr> <td colspan="2">6:00AM</td> <td colspan="2">JAMES AND THE GIANT PEACH</td> </tr> <tr> <td colspan="2">7:30AM</td> <td colspan="2">DONT BE A MENACE TO SOUTH CENTRAL</td> </tr> <tr> <td colspan="2">9:00AM</td> <td colspan="2">HEAVY METAL</td> </tr> <tr> <td colspan="2">10:30AM</td> <td colspan="2">PRIMAL FEAR</td> </tr> <tr> <td colspan="2">  </td> <td colspan="2">WHAT'S ON BY PREVUE INTERACTIVE.</td> </tr> </table>								TIME & DATE		35 REQ: DESCRIPTION		1:00PM		THE BIRDCAGE		3:00PM		STEALING BEAUTY		5:00PM		PRIMAL FEAR		7:30PM		COUNTDOWN		8:00PM		ULTIMATE ULTIMATE 1996		11:00PM		ULTIMATE ULTIMATE 1996		SUN 08				2:00AM		HEAVY METAL		3:30AM		PRIMAL FEAR		6:00AM		JAMES AND THE GIANT PEACH		7:30AM		DONT BE A MENACE TO SOUTH CENTRAL		9:00AM		HEAVY METAL		10:30AM		PRIMAL FEAR				WHAT'S ON BY PREVUE INTERACTIVE.	
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27/34

FIG. 27

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<div>INFO</div>		<div> <div>PETE'S DRAGON (2:15)</div> <div>FANTASY MOVIE</div> <div>A LOVABLE DRAGON HELPS AN ORPHAN ESCAPE HIS FOSTER FAMILY. MICKEY ROONEY, HELEN REDDY</div> </div>																																							

L330



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FIG. 28

332

THE  
MAIN  
EVENT

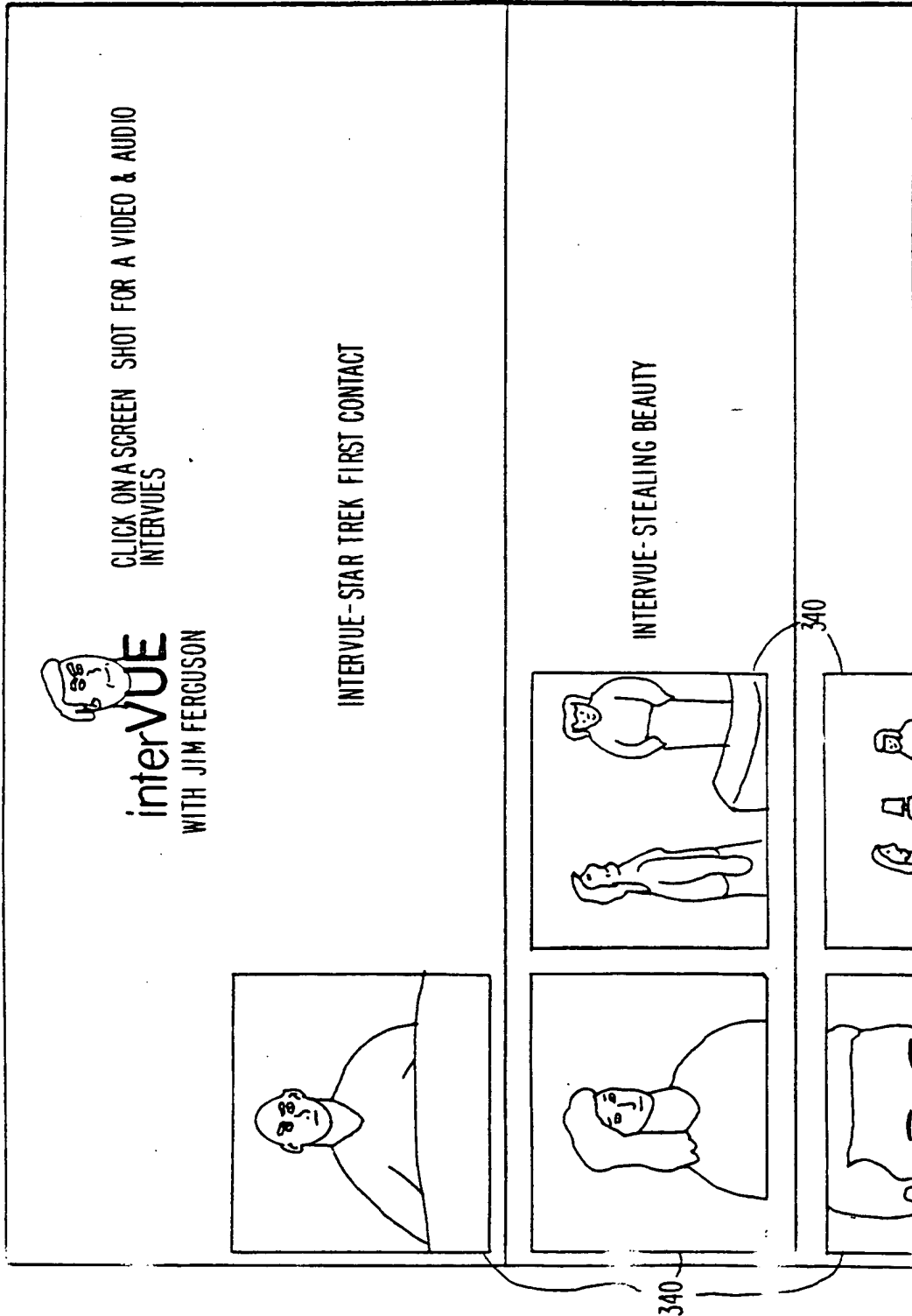
LIVE SPORTS EVENTS THIS MONTH ON PAY-PER-VIEW

BOXING: TYSON VS. HOLYFIELD → 334

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FIG. 29

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FIG. 30

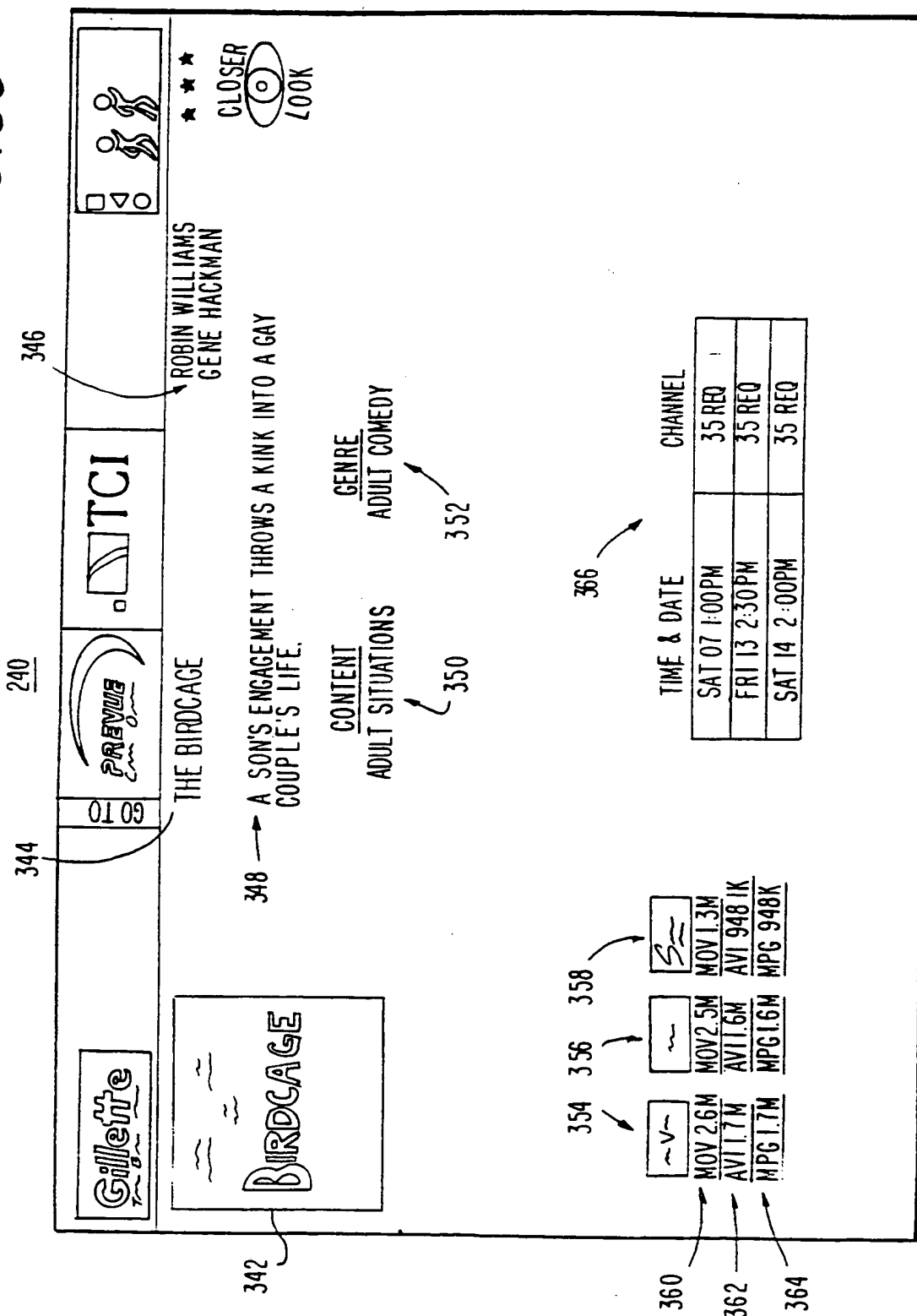


FIG. 31

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ORDER PPV MOVIE / EVENT

TO ORDER PPV ONLINE, YOU MUST HAVE HAVE A PIN NUMBER.,  
IF YOU DO NOT HAVE A PIN NUMBER, PLEASE CALL  
CUSTOMER SERVICE AT 1-800-222-3333

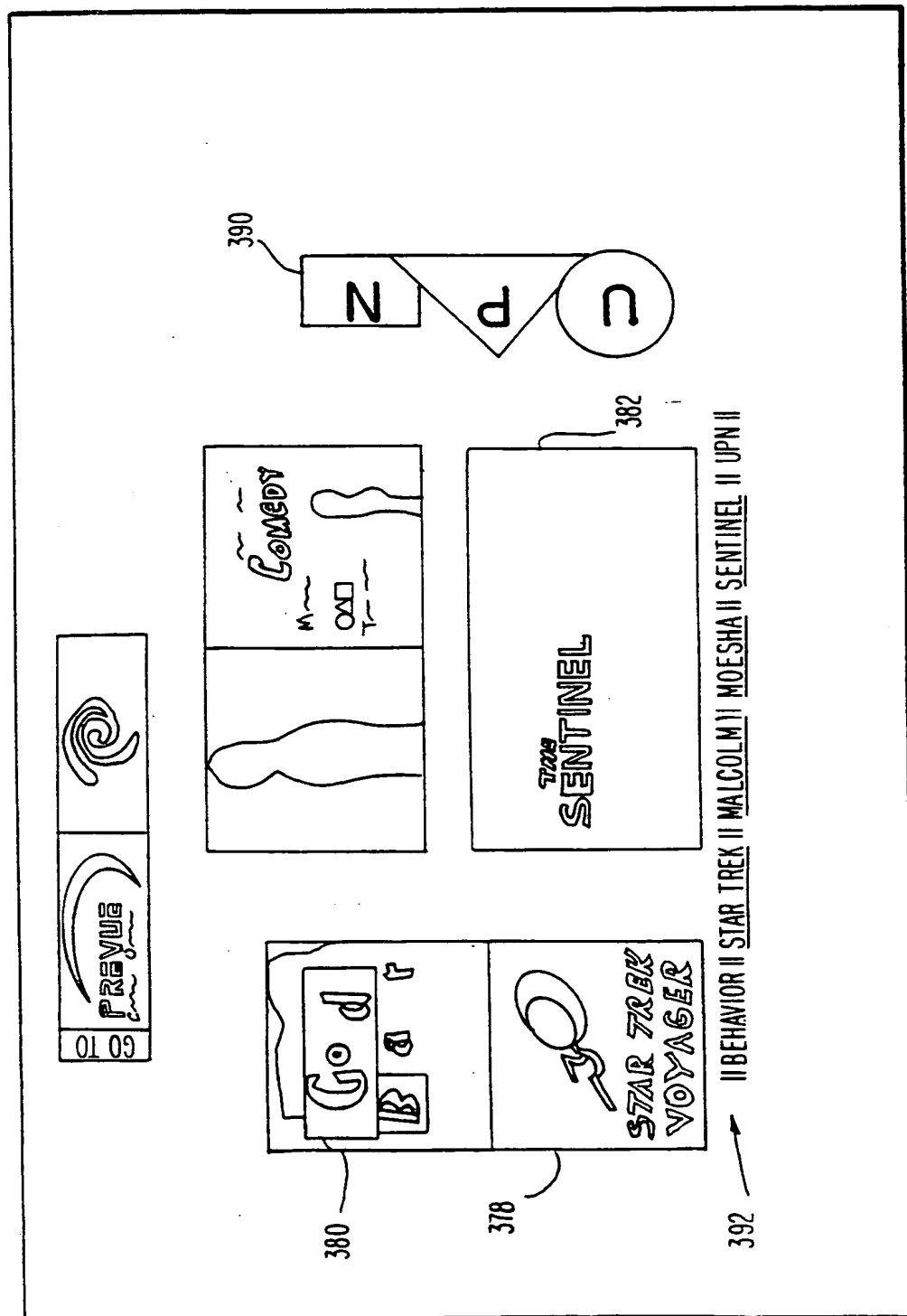
ENTER TELEPHONE NUMBER     370

ENTER PIN  372

PLACE ORDER 374

FIG. 32

376



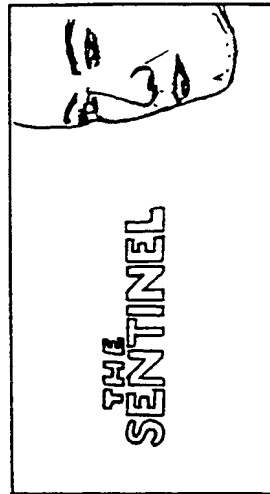
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FIG. 33

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CLICK FOR VIDEO



THIS WEEK'S EPISODE  
UPN - SENTINEL - TS211

TENSION RUNS HIGH AS ELLISON SEARCHES FOR A  
 SERIAL BOMBER WHO IS TARGETING AFRICAN  
 AMERICAN CHURCHES.

GUEST STARRING:

KIMBERLY ELISE AS CANDANCE BLAKE, KEN  
 EARL AS CAPTAIN TAGGERT, MICHEL KOPSA AS  
 DIRK LARSON, KIRK B.R. WOLLER AS ALEX

PROGRAM OVERVIEW:

RUGGED POLICE DETECTIVE JAMES ELLISON (RICHARD  
 BURG) AND GOOD-NATURED ANTHROPOLOGIST  
 GRADUATE STUDENT BLAIR SANDBURG (GARETT  
 MAGGART) BECOME AN IMPROBABLE TEAM WHEN THE  
 RENEGADE DETECTIVE DEVELOPS A DRAMATICALLY  
 DIFFERENT ADVANTAGE - HIS FIVE SENSES ARE  
 HEIGHTENED WILDLY BEYOND THAT OF AN ORDINARY  
 HUMAN BEING - AND THE HIP, YOUNG GRAD KNOWS AN



# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 97/22753

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 H04N5/445

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
------------	--	-----------------------

A	WO 96 27989 A (MULTIMEDIA SYSTEMS CORP) 12 September 1996 see page 7, line 12 - page 11, line 15; figures 1-5 see page 23, line 7 - page 26, line 27; claims 1-3; figure 11 ---	1-3, 40-43, 80
A	WO 96 38962 A (SIEMENS AG ;STEIN KARL ULRICH (DE); HUSSMANN HEINRICH (DE); THEIME) 5 December 1996 see page 14, line 24 - page 17, line 25; figures 6-8 ---	1-3, 41-43

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"8" document member of the same patent family

Date of the actual completion of the international search

28 April 1998

Date of mailing of the international search report

14/05/1998

Name and mailing address of the ISA  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.  
 Fax: (+31-70) 340-3016

Authorized officer

Fuchs, P





# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 97/22753

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9627989 A	12-09-1996	US 5612730 A	18-03-1997
		AU 5177696 A	23-09-1996
		CA 2214650 A	12-09-1996
		EP 0813794 A	29-12-1997
WO 9638962 A	05-12-1996	EP 0830776 A	25-03-1998